

# City of Apopka Planning Commission Meeting Agenda March 13, 2018 5:30 PM @ CITY COUNCIL CHAMBERS

# I. CALL TO ORDER

If you wish to appear before the Planning Commission, please submit a "Notice of Intent to Speak" card to the Recording Secretary.

# II. OPENING AND INVOCATION

# **III. APPROVAL OF MINUTES:**

Approve minutes of the Planning Commission regular meeting held February 13, 2018.

# **IV. PUBLIC HEARING:**

- 1. COMPREHENSIVE PLAN SMALL SCALE FUTURE LAND USE AMENDMENT From "County" Rural to "City" Commercial (Max. 0.25 FAR) for property owned by Kenney Harry Charles McAllister and located on the Northwest corner of North Hermit Smith Road and U.S. 441 intersection. (Parcel ID No. 01-21-27-0000-00-001)
- CHANGE OF ZONING From "County" A-1 (Agricultural) to "City" Planned Unit Development (PUD/Commercial) for property owned by Kenney Harry Charles McAllister and located on the Northwest corner of North Hermit Smith Road and U.S. 441 intersection. (Parcel ID No. 01-21-27-0000-00-001)
- 3. CHANGE OF ZONING OAK POINTE From "County" A-1 (Agricultural) to "City" Planned Unit Development (PUD/Residential); and amendment of Ordinance No. 2584 to incorporate property into the legal description therein, for properties owned by Jason C. Revelle and Thompson Hills Estates, LLC, and located east of Ocoee-Apopka Road, north of McCormick Road. (Parcel ID #s: 29-21-28-0000-00-037; 29-21-28-0000-00-011; 29-21-28-0000-00-016; 29-21-28-0000-00-033; 29-21-28-0000-00-038; 32-21-28-0000-00-004; 32-21-28-0000-00-030)
- 4. PLAT BINION RESERVE SUBDIVISION Owned by Gail W. Brown, c/o Jeffrey A. Sedloff, P.E., June Engineering Consultants, Inc. and located at 1078 South Binision Road. (Parcel ID #: 18-21-28-0000-00-057)

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- FINAL DEVELOPMENT PLAN/PLAT LAKE GEM COMMERCE PARK Owned by Property Industrial Enterprises, LLC, c/o Michael Cooper and located at 511 and 611 Marshall Lake Road. (Parcel ID #s: 09-21-28-0000-00-011 and 08-21-28-0000-00-029)
- 6. FINAL DEVELOPMENT PLAN SELF HELP CREDIT UNION Owned by Self Help Credit Union c/o Randy Chambers, President and located at 667 West Orange Blossom Trail. (Parcel ID #: 09-21-28-5900-04-010)
- <u>7.</u> FINAL DEVELOPMENT PLAN/PLAT ZARABROOKE SUBDIVISION Owned by Zarabrooke, LLC, c/o Barry Kalmanson and located at 829 Paradiso Court. (Parcel ID #: 05-21-28-0000-00-056)
- V. SITE PLANS:
- VI. OLD BUSINESS:
- VII. NEW BUSINESS:
- VIII. ADJOURNMENT:

All interested parties may appear and be heard with respect to this agenda. Please be advised that, under state law, if you decide to appeal any decision made by the City Council with respect to any matter considered at this meeting or hearing, you will need a record of the proceedings, and that, for such purpose, you may need to ensure that a verbatim record of the proceedings is made, which record includes a testimony and evidence upon which the appeal is to be based. The City of Apopka does not provide a verbatim record.

In accordance with the American with Disabilities Act (ADA), persons with disabilities needing a special accommodation to participate in any of these proceedings should contact the City Clerk's Office at 120 East Main Street, Apopka, FL 32703, telephone (407) 703-1704, no less than 48 hours prior to the proceeding.

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# Backup material for agenda item:

1 Approve minutes of the Planning Commission regular meeting held February 13, 2018.

# MINUTES OF THE PLANNING COMMISSION MEETING HELD ON FEBRUARY 13, 2018, AT 5:30 P.M. IN THE CITY COUNCIL CHAMBERS, APOPKA, FLORIDA.

**MEMBERS PRESENT:** James Greene, Tony Foster, Linda Laurendeau, Jose Molina, Roger Simpson, and John Sprinkle

**ABSENT:** Patrice Phillips, Orange County Public Schools (Non-voting)

**STAFF PRESENT:** David Moon, AICP - Planning Manager, Richard Earp - City Engineer, Patrick Brackins - City Attorney, Bobby Howell - Senior Planner, Pamela Richmond - Senior Planner, Phil Martinez - Planner I, Jean Sanchez - Planner I, and Jeanne Green - Recording Secretary.

**OTHERS PRESENT:** Sandra Martinez, Denise Prescott, Michael Rowe, Nina Rowe, Carrie Wiercioch, Scott Hill, Mabel Brinkle, Jose Luccioni, Zurong Cai, Lisa Ramlal, Luke Classon, Kim Pritchard, Suzanne Kidd, Richard Wohlfarth, Teresa Sargeant, and Shirish Suchak

**OPENING AND INVOCATION:** Chairperson Greene called the meeting to order and asked for a moment of silent prayer. The Pledge of Allegiance followed.

**WORKSHOP – Sunshine Law & Meeting Procedures** – Patrick Brackin, City Attorney, presented a video prepared by Cliff Shepard, Esq., entitled "Let the Sunshine In" on the Sunshine Law.

Mr. Brackin reviewed the Public Meetings Law; and procedures for Quasi-Judicial Hearings. A copy of the presentation has been made a part of the minutes.

In response to a comment by Ms. Laurendeau about an e-mail she had received regarding a project that will be coming before the Planning Commission in the future, Mr. Brackin stated that e-mails on this nature are public records. The recipient should not delete them and should forward them to the Clerk.

In response to a question by Mr. Sprinkle, Mr. Brackin stated that form at the back of the packet entitled "Affidavit of Annual Board Meeting Training" was there for the use of the Planning Commission but was not mandatory but helpful.

**APPROVAL OF MINUTES:** Chairperson Greene asked if there were any corrections or additions to the regular meeting minutes of January 9, 2018, at 5:30 p.m.

**Motion:** 

Tony Foster made a motion to approve the Planning Commission minutes from the regular meeting held on January 9, 2018, at 5:30 p.m. and seconded by Jose Molina. Aye votes were cast by James Greene, Tony Foster, Linda Laurendeau, Jose Molina, Roger Simpson, and John Sprinkle (6-0).

QUASI-JUDICIAL - CHANGE OF ZONING – CITY OF APOPKA; JAMES D. & DEBORAH M. LYDA; AND CITIZENS BANK OF FLORIDA - Chairperson Greene stated this is a request to recommend approval of the Change of Zoning from Planned Unit Development, Mixed-EC, and I-1 to Planned Unit Development (Residential); and the PUD Master Plan/Preliminary Development Plan for the properties owned by City of Apopka; James D. & Deborah M. Lyda; and Citizens Bank of Florida, located south of Marshall Lake and west of SR 451.

Chairperson Greene stated this item is quasi-judicial and anyone giving testimony during a quasi-judicial hearing must be sworn in. He asked that all those who planned to speak during this hearing to stand and raise their right hand to be sworn in.

Attorney Brackins swore-in staff, petitioners, and affected parties for the quasi-judicial hearing item.

Chairperson Greene asked if there were any affected rties in attendance that wished to speak.

Carrie Wiercioch, 857 Marshall Lake Road, stated she is an affected party as she resides adjacent to the subject properties.

Kim Pritchard, 849 Marshall Lake Road, stated she is an affected party as she resides adjacent to the subject properties.

Sandra Martinez, 779 Cavan Drive, stated she is an affected party as she resides adjacent to the subject properties.

The Planning Commission unanimously agreed that Ms. Wiercioch, Ms. Pritchard, and Ms. Martinez are affected parties.

Chairperson Greene asked if the Commission members had any ex parte communications to divulge regarding this item. No one spoke.

Staff Presentation: Bobby Howell, AICP, Senior Planner, stated this is a request to recommend approval of the Change of Zoning from Planned Unit Development, Mixed-EC, and I-1 to Planned Unit Development (Residential); and the PUD Master Plan/Preliminary Development Plan for the proposed Lake Marshall Subdivision, Phases 1 and 2, owned by the City of Apopka, James D & Deborah M. Lyda, and Citizens Bank of Florida and located south of Marshall Lake and west of SR 451. The applicant is Appian Engineering, LLC. The existing use is vacant land and the proposed use is a single family subdivision with 301 lots to be developed in two phases. The future land use designation is Low Density Residential, Mixed-Use. The tract size is 154.18 +/- acres.

The subject property is approximately 154.17 acres in size and is zoned PUD (Planned Unit Development), Mixed-EC (Mixed Employment Center) and I-1 (Restricted Industrial), and a has a future land use designation of Low Density Residential and Mixed-Use. The subject property is comprised of three parcels and is located south of Marshall Lake and west of SR 451. The owners of the properties are the City of Apopka, James D. and Deborah M. Lyda, and Citizens Bank of Florida. Of the 154.17 acres, the City of Apopka owns 103 acres, Citizens Bank of Florida owns 39.9 acres, and Mr. and Mrs. Lyda own 11.28 acres. The proposed change of zoning to PUD is being requested by a representative of the prospective developer, Royal Oak Homes who proposes to construct 301 single-family units in two phases on the three parcels.

In 2005, 83.28 acres of the property now owned by the City was originally proposed to be developed into a 90 unit single-family subdivision known as Lake Marshall Preserve. This development received City Commission approval and subsequently was never developed. In 2007, the City of Apopka purchased the property. In 2017 after an advertised bid process, Royal Oak Homes agreed to purchase the property from the City contingent upon City Commission approval of a PUD rezoning and Preliminary Development Plan for the proposed development.

The PUD Master Plan and Preliminary Development Plan propose development of the property in two phases as a private, gated residential community with a total of 301 single-family homes. 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 development is proposed to be accessed via Johns Road. Adjacent to the west of the subject property is the Breckenridge subdivision. A gated access for emergency vehicle access 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.

# Lot Size.

Typical Lot Width	Number of units	Percentage of development	Typical lot area (minimum size)
55-feet	119	39%	7,425 square feet
60-feet	149	50%	8,100 square feet
75-feet	33	11%	10,875 square feet
Total	301	100%	

The developer is proposing 55-foot, 60-foot and 75-foot wide lots with a minimum average lot area of lots and 7,425 square feet for the 55-foot wide lots, 8,100 square feet for the 60-foot wide lots and 10,875 square feet for the 75-foot wide lots. The minimum lot depth is proposed at 135-feet. The minimum living area is proposed at 1,800 square feet in Phase 1 and 1,600 square feet in Phase 2. Both phases of the subdivision will be accessed via Johns Road. Johns Road will terminate at the main entrance of the development, which will be accessed via a gate. The developer will be dedicating a 0.27 acre portion of right-of-way along Johns Road to the City. The subdivision will consist of private roads and infrastructure that is owned and maintained by the homeowners association.

<u>Deviations</u>. The applicant is requesting three deviations to the City's required development standards. For a PUD master plan, a deviation from the City's Land Development Code 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.

- 1. Typical Lot Width Standard. The first deviation is to Land Development Code Section 2.02.18.D.11, which requires a minimum lot size within a PUD to be 70-feet in width, and to have a minimum site area of 7,500 square feet. In addition to 75-foot wide lots, the developer is proposing 60-foot and 55-foot wide lots with minimum lots sizes of 8,100 square feet and 7,425 square feet respectively.
- 2. Garage Standards. The second deviation requested is from Section 3.2.1 of the Development Design Guidelines which requires front-entry garages to be setback a minimum of thirty (30) feet from the front property line. The Master Plan provides a 25-foot setback for front entry garages. Based on the shape of the property and the lot yield that the applicant has indicated is necessary for financial feasibility, a 25-foot garage setback will potentially result in a larger back yard.
- 3. Architectural Design. The third deviation requested is from Section 3.2.1 of the Development Design Guidelines, an architectural appearance standard, which requires front entry garages to be flush with or behind the primary residential façade. The applicant is proposing three garage types protruding, flush, and recessed. According to the applicant, side entry garages are not an option on 55-foot, 60-foot, and 75-foot wide lots. The applicant contends that providing the three garage options will help to break up the monotony of each home being offset the same distance from the sidewalk.

<u>Justification for Deviations\Development Standard</u>. The following justifications are provided for the three deviations that are proposed.

1. An improved recreation amenities package is proposed. The recreation package 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 a community dock, and a 1.03 acre open space tract across

the street from this park. In the Phase 2 area, two tracts will be dedicated as a park/open space area, and a 15.12 acre Conservation area will also be dedicated.

- 2. Protection of Environmentally Sensitive Areas and Preservation of Open Space. The PUD master plan protects wetlands within the northwest and northeast corners of the project boundaries, containing approximately 19 acres within Tracts "K" and "L" of Phase I. Open space is preserved through approximately 15 acres within Tract "I" of Phase 2.
- 3. Abutting Site Characteristics. Fifty-foot landscape buffer. 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 and separation between the larger lots in Breckenridge and the smaller lots within Lake Marshall PUD will be provided. S.R. 451 (tollway) abuts a significant portion of the eastern project line, making the area less attractive for large lot residential development.
- 4. No other residential neighborhoods will be impacted by the development. The development abuts SR 451 to the east and Marshall Lake to the north. As mentioned above, a 50-foot wide landscape buffer will separate the Breckenridge development from the subject property. The development will not visible from the surrounding properties.
- 5. The Master Plan proposes a diversity of lot sizes-- (55-feet, 60-feet, and 75-feet lot widths).
- 6. Access to the site is limited because of lake and wetland systems to the north and an odd shape parcel to the south. The southern end of the property is also blocked by a wetland system. Therefore, access to the property is severely limited, leaving Johns Road as the only reasonable access point without impact environmental sensitive areas.
- 7. The Master Plan proposes a gated development with private roads and infrastructure.

<u>Transportation</u> The traffic generated by this project will cause a reduced level of service at the intersection of Johns Road and Bradshaw Road and the intersection of Bradshaw Road and Ocoee Apopka Road. The intersection of Johns Road and Bradshaw Road will require the following roadway improvements to be constructed prior to the issuance of the 87th Certificate of Occupancy for Phase 1, Phase 2, or a combination of Phase 1 and Phase 2:

- 1. A 260- foot northbound left turn lane;
- 2. A 185-foot southbound right turn lane; and
- 3. A 150-foot eastbound turn lane.

The intersection of Bradshaw Road and Ocoee Apopka Road is projected to experience significant delays at the stop sign with the addition project traffic and committed traffic on both roadways. While existing conditions do not warrant a signal, the intersection may meet warrants in the future. It is recommended the Developer be required to conduct a signal warrant analysis for the intersection of Bradshaw Road and Ocoee Apopka Road prior to the issuance of the 251<sup>st</sup> Certificate of Occupancy. If the City determines a signal is warranted, the Developer will design and install a traffic signal at the intersection within a year of the issuance of the final Certificate of Occupancy.

<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 single-family residential uses.
- 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.

The proposed use of the property is consistent with the Low Density Residential and Mixed-Use Future Land Use designations and is consistent with the Land Development Code.

A capacity enhancement agreement with OCPS or a letter exempting the project from school capacity enhancement is required prior to submittal of a final development plan. An application for School capacity determination and a mitigation agreement has been submitted to OCPS by the application. A final development plan will not be approved by the City until such time the School Board approves a school capacity mitigation agreement.

Pursuant to Section 7 of the Joint Planning Area agreement, notification to Orange County is not required for a rezoning application as the subject parcels are not adjacent to unincorporated Orange County.

The Development Review Committee finds the proposed rezoning to Planned Unit Development (PUD), PUD Master Plan, and the Preliminary Development Plan consistent with the Comprehensive Plan and Land Development Code and recommends approval of the Lake Marshall Subdivision Planned Unit Development Master Plan and Preliminary Development Plan.

Staff recommended approval of the rezoning of the subject parcels from Planned Unit Development (PUD), Mixed-EC (Mixed Employment Center) and I-1 (Restricted Industrial) to Planned Unit Development/Residential (PUD), and approval of the PUD Master Plan\Preliminary Development Plan based on the findings and facts presented in the staff report and exhibits.

<u>Petitioner Presentation</u>: Luke Classon, Appian Engineering, 2221 Lee Road, Suite 17, Winter Park, stated he was in attendance on behalf of Appian Engineering and they represent the developer. We have design plans that are being reviewed at this time. There will not be access off of Marshall Lake Road. Access will be off of Johns Road and an emergency only access to the south through the existing Breckenridge development. He said he was available to answer any questions.

In response to Mr. Molina's questions, Mr. Classon stated the deviation requesting the front setback be a minimum of 25-foot setback instead of the required 30 foot so that they can add that five feet to the back yard. He said they looked at large vehicles, such as an F-150 with a trailer hitch, that depth is less than 25 feet. Home buyers don't typically use their front yards, they normally play in the back. The minimum lot depth is 130 feet with a maximum of 140 feet. It is to increase the yield it is to increase the quality.

Mr. Classon explained that the deviation regarding garages is being requested because the applicant is proposing three garage types – protruding, flush, and recessed. Side entry garages are not an option on 55-foot, 60-foot, and 75-foot wide lots. Providing the three garage options will help to break up the monotony of each home being offset the same distance from the sidewalk.

Mr. Classon stated that no other residential neighborhoods will be impacted by the development. The development abuts SR 451 to the east and Marshall Lake to the north. As mentioned above, a 50-foot wide landscape buffer will separate the Breckenridge development from the subject property. The development will not visible from the surrounding properties.

Mr. Classon said there are two entrances one is on Johns Road which is being extended to the west with a large landscaping feature for an entrance way that will be gated. The second access point will only be for residents; and there will be a locked emergency gate accessible through Breckenridge and will benefit both developments.

In response to questions by Ms. Laurendeau, Mr. Classon stated the setback is from the back of the sidewalk to the front point of the building must be 25 feet. With the 2-car garage, 4 parking stalls being provided. Two in the driveway and two in the garage. There is a potential for 5 if the buyer opts for the 3-car garage.

# **Affected Party Presentation:**

Ms. Pritchard expressed her opposition to providing access to Marshall Lake to the 301 residences proposed in Lake Marshall Phases 1 & 2. She requested that motorized vehicles (boats, jet skis, etc.) not be permitted on the lake. She expressed concern with regard to the existence and condition of the ramp and dock on the property; and the impacts to the ecosystem of the lake.

Chairperson Greene stated that the Development Review Committee (DRC) is aware of providing access to Marshall Lake to the residences or the use of motorized vehicles on the lake.

In response to a question by Chairperson Greene, Ms. Pritchard stated she does not want anyone to have access to the lake.

In response to a question by Mr. Foster, Ms. Pritchard stated that she currently has access to the lake but does not want anyone else to have access.

Ms. Wiercioch stated that any new developments along the lake should not provide access to the lake. She stated the lake is too small and shallow for motorized vehicles. She expressed her opposition to providing access to Marshall Lake to the 301 residences proposed in Lake Marshall Phases 1 & 2. She requested that motorized vehicles (boats, jet skis, etc.) not be permitted on the lake. She expressed concern with regard to the existence and condition of the ramp and dock on the property; and the impacts to the ecosystem of the lake.

In response to questions by Ms. Martinez, Mr. Classon stated that the 50 foot natural landscape buffer between her home in Breckenridge and the retention pond in Lake Marshall would remain. There will only be a fence around the retention pond.

In response to questions by Chairperson Greene, Mr. Moon stated this plan is different from what was previously submitted because there are more properties included and the plan is more creative.

Mr. Classon stated that the emergency access on the south will be more beneficial to the Breckenridge community.

In response to question by Mr. Molina, Mr. Classon stated there is currently a concrete ramp and a dilapidated dock. The dock is going to be replaced.

Chairperson Greene opened the meeting for public hearing.

Mike Rowe, 651 Lake Doe Boulevard, opposed allowing access to the lake because it is too shallow and expressed concerns that trees along the lake would be removed.

Mr. Classon stated that they would not be making a connection to Lake Marshall. The area next to the lake has been designated as conservation area.

In response to a question by Chairperson Greene, Mr. Moon stated that staff was unable to find a state agency that makes a determination on whether a water body is navigable. He said that access to the lake would have to be determined by finding out who owns the lake. He stated the Planning Commission could direct staff to research who owns the lake and who has legal access.

Mr. Brackins stated that his office can look into that.

Scott Hill, 635 Lake Doe Boulevard, stated he lives right on the water. He stated that when the lake is dry you can walk across it. The lake is owned by multiple owners. There is a lot of wildlife. He stated that the St. Johns River Water Management District would be the entity to contact to find out is the lake is useable as is being proposed.

Nina Rowe, 651 Lake Doe Boulevard, expressed her opposition to allowing speed boats on the lake and the noise impact on the area. She stated that only those who live along the lake should have access.

Ms. Pritchard stated that she is not opposed to the development being proposed; but wants only the lots adjacent to the lake to have access.

In response to a question by Mr. Hill, Mr. Classon stated that at this time he does not have information regarding the proposed prices of the homes.

In response to a question by Ms. Laurendeau, Mr. Moon stated that it is not feasible to fence off the lake,

Mr. Simpson suggested that language be included in the HOA covenants and restrictions about access to the lake.

With no one else wishing to speak, Chairperson Greene closed the public hearing.

# **Motion:**

Linda Laurendeau made a motion to find the application consistent with the Apopka Comprehensive Plan and Land Development Code, and recommend approval of the change of zoning from Planned Unit Development, Mixed-EC, and I-1 to Planned Unit Development (Residential); and the PUD Master Plan/Preliminary Development Plan for the properties owned by City of Apopka; James D. & Deborah M. Lyda; and Citizens Bank of Florida and located south of Marshall Lake and west of SR 451. Motion seconded by Tony Foster. Aye votes were cast by James Greene, Tony Foster, Linda Laurendeau, and Roger Simpson. Jose Molina and John Sprinkle voted no. (4-2). (Vote taken by poll.)

**LEGISLATIVE - COMPREHENSIVE PLAN - SMALL SCALE - FUTURE LAND USE AMENDMENT - IGLESIA GETSEMANI, INC. -** Chairperson Greene stated this is a request to find the proposed Future Land Use Designation consistent with the Comprehensive Plan; and to recommend approval of the Future Land Use amendment from "County" Commercial to "City" Commercial (Maximum of 0.25 FAR) for the property owned by Iglesia Getsemani, Inc. and located at 2575 West Orange Blossom Trail.

<u>Staff Presentation</u>: Phil Martinez, Planner I, stated this is a request to find the proposed Future Land Use Designation consistent with the Comprehensive Plan; and to recommend approval of the Future Land Use amendment from "County" Commercial to "City" Commercial (Maximum of 0.25 FAR) for the property owned by Iglesia Getsemani, Inc. and located at 2575 West Orange Blossom Trail. The existing use is a church with a single-family residence. The current zoning is "County" C-1 which is being processed at the same time as the future land use amendment to "City" C-1. The existing maximum allowable development is up to 187,350 sq. ft. and the proposed is up to 15,621 sq. ft. The tract size is 1.43 +/- acres. (Staff report incorporated into the record.)

The applicant intends to annex the existing house of worship and single family residence to unite this parcel with the abutting eastern parcel, which is located within the City's jurisdiction and is used for a parking lot by the Church.

The annexation for the subject property was approved by the city council, for a second reading, on December 20, 2017 by ordinance 2613.

A request to assign a Future Land Use Designation of "Commercial" is compatible with the designations assigned to abutting properties. City parcels to the east share this same Future Land Use designation. The commercial uses act as a transition space between the residential neighborhood to the north and the arterial road, and an industrial park to the south. The FLUM application covers approximately 1.43 acres.

In conjunction with state requirements, staff has analyzed the proposed amendment and determined that adequate public facilities exist to support this land use change (see attached Land Use Report). Based on the findings of the Land Use report, the proposed FLUM amendment is compatible with the surrounding and nearby land uses and the character of the general area.

The existing and proposed use of the subject property is consistent with the Commercial (max. 0.25 FAR) Future Land Use designation and the City's proposed C-1 Zoning.

Because this request represents a change to a non-residential future land use designation and zoning classification, school capacity determination by Orange County Public Schools is not required.

The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City properly notified Orange County on January 12, 2018.

The Development Review Committee finds the proposed amendment consistent with the Comprehensive Plan and compatible with the character of the surrounding areas, recommending approval of the proposed Future Land Use Designation of Commercial for the property owned by Iglesia Getsemani Inc.

Staff recommended that the Planning Commission find the proposed Future Land Use amendment consistent with the Comprehensive Plan and compatible with the character of the surrounding areas, and recommend approval of the change of Future Land Use Designation from "County" Commercial to "City" Commercial, subject to the findings of the Staff Report.

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

Chairperson Greene opened the meeting for public hearing. With no one wishing to speak, Chairperson Greene closed the public hearing.

**Motion:** 

Roger Simpson made a motion to find the application consistent with the Apopka Comprehensive Plan and compatible with the character of the surrounding area; and to recommend approval of the Small Scale Future Land use amendment from "County" Commercial to "City" Commercial (Maximum of 0.25 FAR) for the property owned by Iglesia Getsemani, Inc. and located at 2575 West Orange Blossom Trail. Motion seconded by Linda Laurendeau. Aye votes were cast by James Greene, Tony Foster, Linda Laurendeau, Jose Molina, Roger Simpson, and John Sprinkle (6-0). (Vote taken by poll.)

**QUASI-JUDICIAL - CHANGE OF ZONING – IGLESIA GETSEMANI, INC. -** Chairperson Greene stated this is a request to find the proposed Change of Zoning consistent with the Comprehensive Plan; and to recommend approval of the Change of Zoning from "County" C-1 (Commercial) to "City" C-1 (Commercial) for the property owned by Iglesia Getsemani, Inc. and located at 2575 West Orange Blossom Trail.

Attorney Brackins swore-in staff, petitioners, and affected parties for the quasi-judicial item to be discussed.

Chairperson Greene asked if there were any affected parties in attendance that wished to speak. No one spoke.

Chairperson Greene asked if the Commission members had any ex parte communications to divulge regarding this item. No one spoke.

Staff Presentation: Mr. Martinez stated this is a request to find the proposed Change of Zoning consistent with the Comprehensive Plan; and to recommend approval of the Change of Zoning from C-1 (Commercial) to "City" C-1 (Commercial) for the property owned by Iglesia Getsemani, Inc. and located at 2575 West Orange Blossom Trail. The existing use is a church with a single-family residence. The current Future Land Use is "County" Commercial (3.0 FAR) and is being processed at the same time as the change of zoning to "City" Commercial (Max. 0.25 FAR). The existing maximum allowable development is up to 187,350 sq. ft. and the proposed is up to 15,621 sq. ft. The tract size is 1.43 +/- acres. (Staff report incorporated into the record.)

Presently, the subject property has not yet been assigned a "City" zoning category. The site is used as a church. The applicant is requesting the City assign a zoning classification of C-1 (Retail Commercial District) to the property. Abutting the eastern parcel line for the subject sites is a parcel that is owned by the same church, which is currently used as the parking lot.

The annexation of the subject property was reviewed and approved by the City Council, on December 20, 2017 through ordinance number 2613.

The place of worship, located on the subject property, is in unincorporated Orange County. The parking lot for this religious use is one parcel to the east, and the parcel is in the city limits. This parking lot has "City" C-1 zoning and Commercial Future Land Use. The existing zoning and Future Land Use designations of Iglesias's parking lot will complement the zoning and Future Land Use designations for the place of worship.

A request to assign a change of zoning to C-1 (Retail Commercial District) is compatible to the adjacent zoning classifications and with the general character of abutting properties and surrounding area. The change of zoning request is being processed in conjunction with a future land use amendment from "County" Commercial to "City" Commercial.

The existing and proposed use of the property is consistent with the proposed Office (Max. 25% Floor Area Ratio) Future Land Use designation and the proposed City C-1 (Retail Commercial District) zoning classification. Site development cannot exceed the <u>intensity</u> allowed by the Future Land Use policies.

The proposed future land use change will result in an insignificant increase (less than 9) in the number of residential units which could be developed at the subject property. Therefore, the property is exempt from school capacity enhancement per the School Interlocal Planning Agreement.

The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City properly notified Orange County on January 12, 2018.

The Development Review Committee finds the proposed amendment consistent with the Comprehensive Plan and compatible with the character of the surrounding areas, recommending approval of the proposed Change of Zoning from "County" C-1 to "City" C-1 for the property owned by Iglesia Getsemani, Inc., and located at 2575 W. Orange Blossom Trail.

Staff recommended that the Planning Commission find the proposed amendment consistent with the Comprehensive Plan and compatible with the character of the surrounding areas, recommending approval of the proposed Change of Zoning from "County" C-1 to "City" C-1 for the property owned by Iglesia Getsemani, Inc.

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.

Petitioner Presentation: None.

Affected Party Presentation: None.

Chairperson Greene opened the meeting for public hearing. With no one wishing to speak, Chairperson Greene closed the public hearing.

**Motion:** 

Jose Molina made a motion to find the application consistent with the Apopka Comprehensive Plan and Land Development Code, and recommend adoption of the change of zoning from "County" C-1 to "City" C-1 for the property owned by Iglesia Getsemani, Inc. and located at 2575 West Orange Blossom Trail. Motion seconded by John Sprinkle. Aye votes were cast by James Greene, Tony Foster, Linda Laurendeau, Jose Molina, Roger Simpson, and John Sprinkle (7-0). (Vote taken by poll.)

QUASI-JUDICIAL - CHANGE OF ZONING - A. D. RAULERSON, SR. & A. D. RAULERSON, JR. AND CURTIS & KAREN PUMPHREY - Chairperson Greene stated this is a request to find the proposed Change of Zoning consistent with the Comprehensive Plan; and to recommend approval of the Change of Zoning from "County" A-1 (Agricultural) to "City" Planned Unit Development (PUD) for the properties owned by A. D. Raulerson, Sr. & A. D. Raulerson; and Curtis & Karen Pumphrey and located north of Lester Road; west of Rock Springs Road.

Attorney Brackins swore-in staff, petitioners, and affected parties for the quasi-judicial item to be discussed.

Chairperson Greene asked if there were any affected parties in attendance that wished to speak.

Jose Luccioni, 25 E. Lester Road, stated that his property is adjacent to the subject property.

The Planning Commission unanimously agreed that Mr. Luccioni is an affected party.

Chairperson Greene asked if the Commission members had any ex parte communications to divulge regarding this item. No one spoke.

Staff Presentation: Jean Sanchez, Planner I, stated this is a request to find the proposed Change of Zoning consistent with the Comprehensive Plan; and to recommend approval of the Change of Zoning from "County" A-1 (Agricultural) to "City" Planned Unit Development (PUD) for the properties owned by A. D. Raulerson, Sr. & A. D. Raulerson; and Curtis & Karen Pumphrey and located north of Lester Road; west of Rock Springs Road. The applicant is Apopka Development II, LLC, c/o Richard C. Wohlfarth, P.E. The existing use on the Raulerson Parcel is warehousing and vacant land; and warehousing on the Pumphrey parcel. The potential development is a single-family development with a minimum lot width of 40 feet. The existing maximum allowable development under the current zoning is 11 dwelling units and the proposed development is 112 lots. The tract size is 23.14 +/- acres. (Staff report incorporated into the record.)

Presently, the subject property has not yet been assigned a "City" zoning category. The applicant is requesting the City assign a zoning classification of PUD (Planned Unit Development) to the property to accommodate lot widths smaller than the minimum required width of 70 feet through an alternative plan.

The subject properties were annexed into the City of Apopka on October 4, 2017, through the adoption of Ordinance No. 2595.

The intent of the PUD zoning ordinance is to accommodate lots that are smaller in width than the regularly required residential zoning districts. The narrowest lot width allowed in other City zoning districts is 70 feet in the R-2 and R-3 zoning districts.

The proposed development, San Sebastian Reserve, is a private and gated subdivision of 112 detached, single family homes. The site comprises of 23.2 acres, of which, 4.43 acres will be dedicated for recreation space. Residential lots have a minimum lot width of 40 feet and a minimum lot size of 4,400 square feet. Additional information, including the conceptual subdivision layout is displayed in the attached conceptual master plan.

A request to assign a change of zoning to PUD is compatible to the adjacent zoning classifications and with the general character of abutting properties and the surrounding area. East of the subject properties is an arterial road, Rock Springs Road, as well as commercially zoned properties. A mobile home park (Rock Springs Mobile Home Park) and a townhome community (Wekiva Park Townhomes) are located to the south of the subject properties. A single family subdivision, with 40 feet lot widths will act as a transitional use between the larger lot community to the north (Alexandria Place) and the other previously mentioned surrounding uses.

The change of zoning request is being processed in conjunction with a future land use amendment from "County" Rural to "City" Commercial. On February 21, 2018, the City Council will vote on Ordinance 2600, which proposes to change the future land use of the subject properties from "County" Residential Low Density to "City" Residential Medium Low.

<u>Deviations</u>: The applicant is requesting two deviations to the City's development standards. For a PUD master plan, a deviation from the City's Land Development Code does not represent a variance but a development standard or zoning condition unique to and approved as part of the PUD zoning.

- 1. Typical lot width standard. The applicant is requesting a deviation from Land Development Code Section 2.02.18(D)(11) requiring the minimum single family lot size within a PUD to be a minimum of 70 feet in width unless City Council finds that a proposed alternative development is adequate to protect public health, safety and welfare based on substantial evidence. The plan shows a minimum40-foot wide single family lot with lot size minimum of 4,400 square feet.
- 2. Number of canopy trees required per single family lot. Due to size of each lot and size of canopy trees at its maturity, the applicant is also requesting a deviation from Section 3.6 of the Development Design Guidelines that requires a minimum of three trees on each lot. The plan shows two trees on each lot with varying types including oak, red maple and crepe myrtle. In lieu of
- 3. Garage standard/architectural design. The second deviation is Section 3.2.1 of the Development Design Guidelines that require front-entry garages to be setback a minimum of 30 feet from the property line.

Two models of the four typical lot detail on the plans show that one lot layout is 25 feet from the property line and another shows 28 feet from the property line. The applicant asserts that the variation garage setbacks provides a visual break along the streetscape.

Justification for Deviation. The following justifications are provided for the three deviations that are proposed:

- 1. Lot Width and Size. The Master Plan provides an enhanced recreation/amenities package. The amenities include a cabana, gazebo, swimming pool, playground, dog park and mail kiosk. In addition, landscape buffers are provided adjacent to the Alexandria Place residential community. Such buffer is not required next to abutting single family residential development if a minimum 70-foot wide lot were provided.
- 2. Lot Tree Planting Requirement. With a minimum lot size of 4,400 square feet and a minimum lot width of 40 feet, insufficient lot area occurs with the lot to plant the required three canopy trees. As alternative, one canopy and one understory tree, or only two canopy trees (depending on the lot) will be planted, and the other required tree will be planted within the landscape buffers, park areas, or other open space within the project site. Additional trees beyond the requirements of the buffer areas are provided, particularly on the northern perimeter of the site to account for the number of trees required for each lot. The plan also shows additional on-street parking throughout the community to off-set the reduced garage setback for those lots with 25' and 28' setbacks
- 3. Due to the shape of the overall site as well as the provision of buffers adjacent to existing residential community, compliance with a minimum open space area of 30%, the provision of over-flow parking areas, and more so because of a confined typical lot depth of 110 feet, the Master Plan offers a 25 foot long driveway instead of the required 30-foot long driveway. Also, typical lot depth at 110 feet combined with the ground floor area of some of the proposed house plans restricts available pace within a 4,400 square foot lot to accommodate a 30-foot long driveway. Further, the San Sebastian residential community is planned as a gate, private community.

<u>PUD Development and Zoning Conditions</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:

The recommendations are that the zoning classification of the aforementioned properties be designated as Planned Unit Development (PUD), as defined in the Apopka Land Development Code, and with the following Master Plan provisions are subject to the following provisions:

- A. The uses permitted within the PUD district shall be: single family homes and associated accessory uses or structures consistent with land use and development standards established for the R-1 zoning category except where otherwise addressed in this ordinance.
- B. 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.
- C. The following PUD development standards shall apply to the development of the subject property:
  - 1. Exhibit "F" describes the development standards applicable to this PUD/PDP Master Site Plan.
  - 2. Unless otherwise addressed within the PUD development standards, the R-1 zoning standards will apply to the subject property.

The existing and proposed use of the property is consistent with the proposed Residential Medium Low (0-7.5 du/ac) Future Land Use designation and the proposed Planned Unit Development Zoning classification. Site development cannot exceed the intensity allowed by the Future Land Use policies.

A capacity enhancement agreement with Orange County Public Schools (OCPS) or a letter exempting the project from school capacity enhancement is required prior to submittal of a final development plan. An application for School Capacity Determination and a mitigation agreement has been submitted to OCPS by the application. A final development plan will not be approved by the City until such time the School Board approves a school capacity mitigation agreement.

The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City properly notified Orange County on January 12, 2018.

The Development Review Committee finds the proposed amendment consistent with the Comprehensive Plan and compatible with the character of the surrounding areas, recommending approval of the proposed Change of Zoning from "County" A-1 to "City" PUD for the property owned by A.D Raulerson, Sr. & A.D. Raulerson, Jr. and Curtis and Karen Pumphrey, and located north of Lester Road and west of Rock Springs Road.

Staff recommended that the Planning Commission find the proposed amendment consistent with the Comprehensive Plan and compatible with the character of the surrounding areas, and recommends approval of the proposed Change of Zoning from "County" A-1 to "City" PUD| (Commercial) for the property owned by A.D Raulerson, Sr. & A.D. Raulerson, Jr. and Curtis and Karen Pumphrey, and located north of Lester Road and west of Rock Springs Road, subject to the PUD Development and Zoning Conditions provided in the staff report.

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.

Petitioner Presentation: Richard C. Wohlfarth, P.E., Wohlfarth Consulting Group, LLC, 246 N. Westmonte Drive, Altamonte Springs, stated he represents Apopka Development II, LLC. With regard to the requested deviations they would be providing enhanced recreation amenities. He stated that the minimum lot area will be 1,660 sq. ft. and the maximum will be 2,700 sq. ft. Except for one two-story single family lot, they are requesting a deviation of the required lot width of 70' to be 40'. The home prices are expected to range from \$200,000 to \$300,000. There is an additional 50 parking spaces in an overflow parking area.

In response to a question by Ms. Laurendeau, Mr. Wohlfarth stated that the original plans were too dense for the area so they came up with an alternative that provides a transition from the mobile home park and the properties to the north.

In response to questions by Mr. Molina, Mr. Wohlfarth stated there will be two gated entrances off of Lester Road. The cul-de-sacs have been designed to accommodate emergency vehicles.

In response to a question by Mr. Simpson, Mr. Wohlfarth stated they would be providing a traffic study that will provide that the level of service requirements are met. The distance between the traffic signal on Lester and this project is approximately 800 ft. to 1,000 ft.

<u>Affected Party Presentation</u>: In response to a question by Mr. Luccioni, Mr. Wohlfarth stated there will be a PVC fence installed adjacent to his property.

Chairperson Greene opened the meeting for public hearing. With no one wishing to speak, Chairperson Greene closed the public hearing.

Motion: Jose Molina made a motion to add a condition to require an emergency access to the

properties owned by A. D. Raulerson, Sr. & A. D. Raulerson; and Curtis & Karen

Pumphrey and located north of Lester Road; west of Rock Springs Road.

Motion died due to the lack of a Second.

Motion: Tony Foster made a motion to find the application consistent with the Apopka

Comprehensive Plan and Land Development Code, and recommend adoption of the change of zoning from "County" A-1 (Agricultural) to "City" Planned Unit Development (PUD) for the properties owned by A. D. Raulerson, Sr. & A. D. Raulerson; and Curtis & Karen Pumphrey and located north of Lester Road; west of Rock Springs Road. Motion seconded by Roger Simpson. Aye votes were cast by James Greene, Tony Foster, Linda Laurendeau, Roger Simpson, and John Sprinkle.

Jose Molina voted no. (5-1). (Vote taken by poll.)

Due to a previous engagement, Tony Foster left the meeting at 7:38 p.m.

**QUASI-JUDICIAL - CHANGE OF ZONING – TGINF, LLC -** Chairperson Greene stated this is a request to find the proposed Change of Zoning consistent with the Comprehensive Plan; and to recommend approval of the Change of Zoning from "County" A-1 (Agricultural) to "City" Planned Unit Development (PUD) for the properties owned by A. D. Raulerson, Sr. & A. D. Raulerson; and Curtis & Karen Pumphrey and located north of Lester Road; west of Rock Springs Road.

Attorney Brackins swore-in staff, petitioners, and affected parties for the quasi-judicial item to be discussed.

Chairperson Greene asked if there were any affected parties in attendance that wished to speak. No one spoke.

Chairperson Greene asked if the Commission members had any ex parte communications to divulge regarding this item. No one spoke.

<u>Staff Presentation</u>: Mr. Martinez stated this is a request to find the proposed Change of Zoning consistent with the Comprehensive Plan; and to recommend approval of the Change of Zoning from "C-1 (Retail Commercial) to R-3 (Residential Multi-Family) for the property owned by TGINF, LLC and located at 501 Old Dixie Highway. The existing use is woodlands and the proposed use is townhomes. The maximum allowable development is 171,294 sq. ft. Commercial Use and the proposed maximum allowable development is 117 Dwelling Units (92 proposed on Preliminary Development Plan). The tract size is 15.7 +/- acres.

The subject parcel was annexed into the City of Apopka on December 17, 2003 through the adoption of Ordinance 1619.

A request to assign a change of zoning to R-3 (Residential Multiple-Family District) is compatible with the adjacent zoning classifications and with the general character of abutting properties and surrounding area. The proposed townhome subdivision will act as a transitional use between the commercial properties on Old Dixie Highway and West Orange Blossom Trail and the single family residential subdivision to the north. The property owner is requesting the R-3 zoning classification for the development of a proposed townhome subdivision. This use is consistent with the proposed Residential Medium Low Future Land Use Designation. The proposal to rezone the property to R-3 (Residential Multiple-Family District) is compatible with the general character of the surrounding zoning and uses.

The change of zoning application covers approximately 15.73 acres.

In conjunction with state requirements, staff has analyzed the proposed amendment and determined that adequate public facilities exist to support this land use change (see attached Zoning Report).

The proposed use of the property is consistent with the Residential Medium Low (0-7.5 d/u per acre) Future Land Use designation and with the proposed R-3 zoning classification. Site development cannot exceed the intensity allowed by the Future Land Use policies.

A capacity enhancement agreement and\or school mitigation agreement with OCPS or a letter exempting the project from school capacity enhancement is required prior to submittal of a final development plan.

The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City properly notified Orange County on January 12, 2018.

The Development Review Committee finds the proposed amendment consistent with the Comprehensive Plan. The Development Review Committee recommends adoption of the change in zoning from C-1 (Commercial) to R-3 (Residential Multiple Family), subject to the adoption of the associated large scale future land use amendment, for the property owned by TGINF, LLC.

Staff recommended the Planning Commission find the proposed rezoning consistent with the Comprehensive Plan and Land Development Code and to recommend a change of zoning from C-1 (Commercial) to R-3 (Residential Multiple Family), for property owned by TGINF, LLC, subject to the adoption of the associated large scale future land use amendment.

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.

Petitioner Presentation: None.

Affected Party Presentation: None.

Chairperson Greene opened the meeting for public hearing. With no one wishing to speak, Chairperson Greene closed the public hearing.

**Motion:** 

Roger Simpson made a motion to find the application consistent with the Apopka Comprehensive Plan and Land Development Code, and recommend approval of the change of zoning from "C-1 (Retail Commercial) to R-3 (Residential Multi-Family) for the property owned by TGINF, LLC and located at 501 Old Dixie Highway. Motion seconded by John Sprinkle. Aye votes were cast by James Greene, Linda Laurendeau, Jose Molina, Roger Simpson, and John Sprinkle (5-0). (Vote taken by poll.)

**LEGISLATIVE - COMPREHENSIVE PLAN - SMALL SCALE - FUTURE LAND USE AMENDMENT - VBRO ENTERPRISES, INC. -** Chairperson Greene stated this is a request to find the proposed Future Land Use Designation consistent with the Comprehensive Plan; and to recommend approval of the Small Scale Future Land Use Amendment from "County" Low Density Residential (0-4 du/ac) to "City" Commercial (Max. 0.25 FAR) for the property owned by VBRO Enterprises, Inc. and located at 41 E. Lester Road.

Staff Presentation: Mr. Martinez stated this is a request to find the proposed Future Land Use Designation consistent with the Comprehensive Plan; and to recommend approval of the Small Scale Future Land Use Amendment from "County" Low Density Residential (0-4 du/ac) to "City" Commercial (Max. 0.25 FAR) for the property owned by VBRO Enterprises, Inc. and located at 41 E. Lester Road. The applicant is Burkett Engineering, c/o William E. Burkett, P.E. The existing use is a single family residence. The potential development is 9,119 sq. ft. commercial use. The current zoning is "County" A- 1 and the proposed zoning is "City" Planning Unit Development (PUD/Commercial Neighborhood). The proposed

zoning is being processed as the same time of the small scale future land use amendment. The existing maximum allowable development is 3 dwelling units and the proposed is up to 9,119 sq. ft. of commercial use. The tract size is 0.83 +/- acres.

A request to assign a Future Land Use Designation of "Commercial" is compatible with the designations assigned to abutting properties. The FLUM application covers approximately 0.84 acre. Combined with the parcel to the east and several other parcels along the west side of Rock Springs Road, this parcel is proposed to be developed as a small commercial retail plaza. A proposed zoning of Planned Unit Development will tailor the site to appropriate commercial and office uses compatible to residential development further to the west along Lester Road. This proposed shopping plaza will be located at the northwest corner of Lester Road and Rock Springs Road.

The adjacent properties to the east, face an arterial road have a "Commercial" Future Land Use designation. The Wekiva Plaza Shopping Center is approximately a half mile south of the subject property.

In conjunction with state requirements, staff have analyzed the proposed amendment and determined that adequate public facilities exist to support this land use change (see attached Land Use Report). Based on the findings of the Land Use report, the proposed FLUM amendment is compatible with the surrounding and nearby land uses and the character of the general area.

The proposed zoning of the subject property, "Commercial Neighborhood" is consistent with the Commercial (max. 0.25 FAR) Future Land Use designation.

Because this request represents a change to a non-residential future land use designation and zoning classification, school capacity determination by Orange County Public Schools is not required.

The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City properly notified Orange County on January 12, 2018.

The Development Review Committee finds the proposed amendment consistent with the Comprehensive Plan and compatible with the character of the surrounding areas, recommending approval of the proposed Future Land Use Designation of Office for the property owned by VBRO Enterprises, Inc., and located at 41 East Lester Road.

Staff recommended the Planning Commission find the proposed Future Land Use amendment consistent with the Comprehensive Plan and compatible with the character of the surrounding areas, and recommend approval of the change of Future Land Use Designation from "County" Low Density Residential to "City" Commercial, subject to the findings of the Staff Report.

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

Bill Burkett, Burkett Engineering, 105 E Robinson St, Orlando, stated he was available to answer any questions.

Chairperson Greene opened the meeting for public hearing.

In response to a question by Mr. Luccioni, Mr. Moon stated that buffer requirements would be addressed at the time the preliminary development plan is submitted.

With no one else wishing to speak, Chairperson Greene closed the public hearing.

Motion: Linda Laurendeau made a motion to find the application consistent with the Apopka Comprehensive Plan and compatible with the character of the surrounding area; and

to recommend approval of the Small Scale Future Land use amendment from "County" Low Density Residential (0-4 du/ac) to "City" Commercial (Max. 0.25 FAR) for the property owned by VBRO Enterprises, Inc. and located at 41 E. Lester Road. Motion seconded by Roger Simpson. Aye votes were cast by James Greene, Linda Laurendeau, Jose Molina, Roger Simpson, and John Sprinkle. (5-0). (Vote taken by poll.)

**QUASI-JUDICIAL - CHANGE OF ZONING – VBRO ENTERPRISES, INC. -** Chairperson Greene stated this is a request to recommend approval of the Change of Zoning from "County" A-1 (Agriculture) to "City" Planned Unit Development (PUD/Neighborhood Commercial) for the property owned by VBRO Enterprises, Inc. and located at 41 E. Lester Road.

Attorney Brackins swore-in staff, petitioners, and affected parties for the quasi-judicial item to be discussed.

Chairperson Greene asked if there were any affected parties in attendance that wished to speak. No one spoke.

Chairperson Greene asked if the Commission members had any ex parte communications to divulge regarding this item. No one spoke.

Staff Presentation: Mr. Martinez stated this is a request to recommend approval of the Change in Zoning from "County" A-1 (Agriculture) to "City" Planned Unit Development (PUD/Neighborhood Commercial) for the property owned by VBRO Enterprises, Inc. and located at 41 E. Lester Road. The applicant is Burkett Engineering, c/o William E. Burkett, P.E. The existing use is a single family residence. The potential development is 9,119 sq. ft. commercial use. The current zoning is "County" A- 1 and the proposed zoning is "City" Planning Unit Development (PUD/Commercial Neighborhood). The proposed zoning is being processed as the same time of the small scale future land use amendment. The existing maximum allowable development is 3 dwelling units and the proposed is up to 9,119 sq. ft. of commercial use. The tract size is 0.83 +/- acres. (Staff report incorporated into the record.)

The applicant desires to combine six small parcels at the northwest corner of North Rock Springs Road and Lester Road into a small commercial or office shopping center. For the five parcels abutting Rock Springs Road, "City" CN (Neighborhood Commercial) is currently assigned to each. For the sixth parcel, which fronts Lester Road and which was recently annexed into the City, the zoning is "County" A-1.

The intent of the PUD (Planned Unit Development) zoning request is to allow a restaurant at the intersection of E. Lester Road and N. Rock Springs Road. Restaurants are prohibited in the current CN zoning category. A request to rezone to C-1 (Retail Commercial District), to accommodate a restaurant, would potentially allow undesirable uses such as motels, laundry facilities, and outside storage of merchandise, equipment or commodities.

A request to assign a change of zoning to PUD, for commercial use, is compatible with the adjacent zoning classifications and with the general character of abutting properties and surrounding area. The subject properties have 500 linear feet of frontage along Rock Springs Road, an arterial road. Other commercial properties, such as the Wekiva Plaza Shopping Center, are in the vicinity of the subject property.

The applicant has voluntarily agreed to restrict the type of commercial uses that may be incompatible for allocation that serves as a gateway into an area dominated by existing and future residential neighborhoods along Lester Road, from Rock Springs Road to Plymouth-Sorrento Road.

<u>PUD Development and Zoning Conditions</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:
  - 1. All permitted uses listed in the PO/I (Professional Office/Institutional) and CN (Commercial Neighborhood) district, except those listed as prohibited below.
  - 2. Restaurants, with or without outdoor seating, including fast-casual restaurants. Fast-casual restaurant is defined as an establishment whose principal business is the sale of food or beverage that is made to order, for consumption within the building, or off the premises as carryout orders. The principal method of operation includes, but is not limited to, the following characteristics: food or beverages may be served in non-disposable container; Limited table service may be available. Order and pay at the counter. The food is made fresh and is either brought to the table by a server or the customer is called back to the counter. Price points are generally higher than fast food. Food is perceived to be higher quality and healthier than food from standard fast food restaurants. May have drive-through service as allowed by the development design standard in Paragraph C.
  - 3. Adult day care, not to exceed 7,000 square feet net floor area.
  - 4. Retail businesses, except those listed as prohibited.
  - 5. Banks.
  - 6. Coffee Shops.
  - 7. Other uses which are similar and compatible to the uses permitted herein which adhere to the intent of the district and which are not prohibited as specified in this code. Use determination shall be based upon the community development director's recommendation.
- B. The uses prohibited within the PUD district shall be:
  - 1. Tobacco Store
  - 2. Laundromat businesses
  - 3. Veterinary and pet grooming facilities
  - 4. Motorized Vehicle Service Stations
  - 5. New or used motorized vehicle sales
  - 6. Plumbing Shops
  - 7. Appliance Stores
  - 8. Tattoo/Piercing Parlors
  - 9. Adult entertainment as defined in section 10-98 of the Apopka Municipal Code
  - 10. Auto title loan, paycheck advance facilities, and other "personal credit institutions"
  - 11. Pawn shops.
  - 12. Employment agencies.

- 13. Modular, mobile and pre-fab home display and sales.
- 14. Mini-warehouse and self-storage facilities.
- 15. Outside storage of supplies, materials, equipment, merchandise, and activities.
- 16. Motorized Truck stops or terminal as defined by this code.
- 17. Flea markets (indoor and outdoor).
- 18. Motorized automotive and transportation related businesses including new and used retail automotive part stores, mechanic shops, new and used car sales, boat sales, vehicle rental, etc.
- 19. Bail bonds businesses.
- 20. Blood banks, blood donor stations, plasmapheresis facilities, or other similar bio-donating uses; provided however, that this prohibition shall not include the practice of the following duly licensed professionals: physicians, dentists, orthodontists or pharmacists, or other health care practitioners, which may perform incidental bio-donating functions and procedures; provided, further, however, that this prohibition shall not apply to bona fide blood drives and similar events conducted by non-profit blood banks for a non-commercial purpose.
- 21. Soup kitchens; provided however, that this prohibition shall not apply to the bona fide charitable activities of bona fide churches, synagogues, mosques and other places of worship that are occupied and in operation on the effective date of this ordinance.
- 22. Outdoor parks and recreational areas.
- 23. Bowling alleys, skating rinks, billiard parlors and similar amusement centers.
- 24. Assisted Living Facilities.
- C. Development Design Standards for this PUD, in addition to the Development Design Standards set forth in the Land Development Code (LDC)shall be as follows:
  - 1. Drive through restaurants shall be limited to one drive aisle and no more than one menu board.
  - 2. Drive through establishments without food and beverage sales are limited to two service drive aisles.
  - 3. The development must have a unified architectural theme.
  - 4. The development shall have a plaza or prominent architectural feature at the corner of Rock Springs. Road and Lester Road. Examples include: statue, fountain, corner entrance, clock tower)
  - 5. Outdoor seating encouraged at restaurant(s).
  - 6. The development must have at least two separate buildings, each building shall have a footprint not greater than 15,000 square feet floor area.
  - 7. Driveways must be at least 50 feet away from the southeastern corner of the development.
  - 8. Building frontage along Rock Springs Road and Lester Road must resemble store fronts with

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windows and either faux or real entrances.

- 9. If any conflict occurs between the above design standards and the LDC, the above standards shall apply.
- D. 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.
- E. The requisite Master Plan shall be submitted with or as part of the Preliminary Development Plan application.

The proposed Planned Unit Development zoning of the property is consistent with the proposed Commercial (Max. 25% Floor Area Ratio) Future Land Use designation. Site development cannot exceed the intensity allowed by the Future Land Use policies.

The proposed rezoning will not generate any residential development and, thus, will not have an impact on public schools.

The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City properly notified Orange County on January 12, 2018.

The Development Review Committee finds the proposed amendment consistent with the Comprehensive Plan and compatible with the character of the surrounding areas, recommending approval of the proposed Change of Zoning from "County" A-1 and "City" CN to "City" PUD for the property owned by VBRO Enterprises, Inc., and located at 41 E. Lester Road, 2038 Rock Springs Road, 2030 Rock Springs Road, 2022 Rock Springs Road, 2014 Rock Springs Road, and 2006 Rock Springs Road.

Staff recommended the Planning Commission find the proposed amendment consistent with the Comprehensive Plan and compatible with the character of the surrounding areas, recommending approval of the proposed Change of Zoning from "County" A-1 and "City" CN to "City" PUD for the property owned by VBRO Enterprises, Inc., subject to the PUD development and zoning standards within the Staff Report.

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.

Petitioner Presentation: Mr. Burkett said he was available to answer any questions.

Affected Party Presentation: None.

Chairperson Greene opened the meeting for public hearing. With no one wishing to speak, Chairperson Greene closed the public hearing.

**Motion:** 

Jose Molina made a motion to find the application consistent with the Apopka Comprehensive Plan and Land Development Code, and recommend adoption of the change of zoning from "County" A-1 (Agriculture) to "City" Planned Unit Development (PUD/Neighborhood Commercial) for the property owned by VBRO Enterprises, Inc. and located at 41 E. Lester Road. Motion seconded by Roger Simpson. Aye votes were cast by James Greene, Linda Laurendeau, Jose Molina, Roger Simpson, and John Sprinkle (5-0). (Vote taken by poll.)

**QUASI-JUDICIAL - VARIANCE – BELVEDERE ESTATES, INC. -** Chairperson Greene stated this is a request to approve a variance of Apopka Code of Ordinances, Part III, Land Development Code, Sections 2.02.01(A) and 2.02.06(G)(1)(c) "Rear yards shall be a minimum of 20 feet" to allow a deck to extend within the required rear-yard setback for the property owned by Belvedere Estates, Inc., c/o Shirish Suchak and located at 1586 Golfside Village Boulevard.

Attorney Brackins swore-in staff, petitioners, and affected parties for the quasi-judicial item to be discussed.

Chairperson Greene asked if there were any affected parties in attendance that wished to speak. No one spoke.

Chairperson Greene asked if the Commission members had any ex parte communications to divulge regarding this item. No one spoke.

Staff Presentation: David Moon, AICP, Planning Manager, provided an introduction to the variance process. He said that the Land Development Code, Section 10.02.00, states the Planning Commission must follow two steps to approve a variance. Section 10.02.02.A, states the limitations on Granting Variances. The Planning Commission "shall first determine whether the need for the proposed variance arises out of the physical surroundings, shape topographical conditions, or other physical or environment conditions that are unique to the specific property involved." This is known as a physical hardship. If the Planning Commission makes this determination, then it must take action on the seven variance criteria set forth in Section 10.02.02.B. Section 10.02.02.B provides the required findings. Once a "physical hardship" has been determined, the Planning Commission shall not vary from the requirements of any provision of the LDC unless it makes a positive finding, based on substantial competent evidence, on the seven variance criteria.

Ms. Sanchez stated this is a request to approve a variance of Apopka Code of Ordinances, Part III, Land Development Code, Sections 2.02.01(A) and 2.02.06(G)(1)(c) "Rear yards shall be a minimum of 20 feet" to allow a deck to extend within the required rear-yard setback for the property owned by Belvedere Estates, Inc., c/o Shirish Suchak and located at 1586 Golfside Village Boulevard. The existing use is a single family residence. The future land use is Residential Low and the zoning is R-3. The tract size is 0.14 +/- acres or 6,094 sq. ft.

# **Applicable City Codes:**

- 1. Section 2.02.01(A) Single-family development shall meet the requirements set forth in the R-2 zoning district.
- 2. Section 2.02.06(G)(1)(c) Rear yards shall be a minimum of 20-feet.

The applicant's request is to allow placement of a deck to expand within the required 20-foot rear yard setback.

The first step of the variance determination process is to determine if a hardship occurs pursuant to Section 10.02.02.A, "whether the need for the proposed <u>variance</u> arises out of the physical surroundings, shape

topographical conditions, or other physical or environment conditions that are unique to the specific property involved."

*Applicant's Response*. Due to the existing size of the rear yard setback, it currently does not allow for a reasonable size deck.

*Staff Response*. No objection. This single family home was built in 1989. Errol Golfside Village was possibly approved without having established setback standards that do not address accessory uses. The current Land Development Code was adopted in 1993. Errol Golfside Village subdivision plat was recorded in 1981.

If the Planning Commission accepts the hardship in Paragraph A. above, the second step is to make a finding on the seven criteria below. The Planning Commission must make a positive finding, based on substantial competent evidence, on each of the following seven criteria:

1. There are practical difficulties in carrying out the strict letter of the regulation [in] that the requested variance relates to a hardship due to characteristics of the land and not solely on the needs of the owner.

*Applicant's Response*: Due to the existing size of the rear yard setback, it currently does not allow for a reasonable size deck.

Staff's Response: No objection.

2. The variance request is not based exclusively upon a desire to reduce the cost of developing the site.

Applicant's Response: The proposed variance incurs a cost of construction.

Staff's Response: No objection.

3. The proposed variance will not substantially increase congestion on surrounding public streets.

**Applicant's Response:** The proposed variance will not increase congestion on the surrounding streets. The extension of the deck will not create special conditions and circumstances.

**Staff's Response:** No objection.

4. The proposed variance will not substantially diminish property values in, nor alter the essential character of, the area surrounding the site.

**Applicant's Response:** The extension of the deck should increase the property value.

**Staff's Response:** City staff does not hold professional expertise to address property values.

5. The effect of the proposed variance is in harmony with the general intent of this code and the specific intent of the relevant subject area(s) of the code.

**Applicant's Response:** The effect of the approval of the requested extension of the deck within the required rear yard setback would allow more time spent outside and enjoy the entire property.

Staff Response: No objection.

6. Special conditions and circumstances do not result from the actions of the applicant.

*Applicant's Response*: The deck extension will be completed in compliance with the rest of the Code. The extension of the existing deck does not affect Golfside Village Boulevard or create safety hazards.

Staff Response: No objections.

7. That the variance granted is the minimum variance which will make possible the reasonable use of the land, building or structure. The proposed variance will not create safety hazards and other detriments to the public.

**Applicant's Response:** The proposed deck extension would allow for more relaxation in the outdoors.

Staff Response: No objections.

Based on the information provided by the applicant at the hearing for the variance requested, the role of the Planning Commission is to first determine that sufficient substantially competent information indicates "whether a need for the proposed variance arises out of the physical surroundings, shape topographical conditions, or other physical or environment conditions that are unique to the specific property involved." If so, then the Planning Commission must find that substantially competent information occurs to accept each of the seven variance criteria. The Planning Commission has authority to take final action. It may approve, deny, or approve with conditions.

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.

In response to a questions by Mr. Molina, Mr. Moon stated that the home will back up to an undeveloped area that is part of a proposed assisted living facility. He said the deck will be raised with four columns supporting the structure.

In response to a questions by Mr. Molina, Mr. Suchak stated a contractor will build the deck. The highest elevation will be 10 to 11 feet from the ground. Plans will be provided as the time the building permit is submitted.

Petitioner Presentation: None.

Affected Party Presentation: None.

Chairperson Greene opened the meeting for public hearing. With no one wishing to speak, Chairperson Greene closed the public hearing.

**Motion:** 

Roger Simpson made a motion to determine that sufficient substantially competent information has been provided that a hardship occurs pursuant to the City of Apopka Code of Ordinances, Part III, Land Development Code, Section 10.02.02.A, "whether the need for the proposed variance arises out of the physical surroundings, shape topographical conditions, or other physical or environment conditions that are unique to the property owned by Belvedere Estates, Inc., c/o Shirish Suchak and located at 1586 Golfside Village Boulevard. The Motion was seconded by John Sprinkle. Aye votes were cast by James Greene, Linda Laurendeau, Jose Molina, Roger Simpson, and John Sprinkle (5-0). (Vote taken by poll.)

**Motion:** 

James K. Hitt, FRA-RA

Community Development Director

Jose Molina made a motion to approve the variance of Apopka Code of Ordinances, Part III, Land Development Code, Sections 2.02.01(A) and 2.02.06(G)(1)(c) "Rear yards shall be a minimum of 20 feet" to allow a deck to extend within the required rearyard setback for the property owned by Belvedere Estates, Inc., c/o Shirish Suchak and located at 1586 Golfside Village Boulevard. The Motion was seconded by Roger Simpson. Aye votes were cast by James Greene, Linda Laurendeau, Jose Molina, Roger Simpson, and John Sprinkle (5-0). (Vote taken by poll.)

OLD BUSINESS: None.

NEW BUSINESS: None.

ADJOURNMENT: The meeting was adjourned at 8:08 p.m.

James Greene, Chairperson

Planning Commission March 13, 2018 Page 28

# Backup material for agenda item:

1. COMPREHENSIVE PLAN – SMALL SCALE – FUTURE LAND USE AMENDMENT – From "County" Rural to "City" Commercial (Max. 0.25 FAR) for property owned by Kenney Harry Charles McAllister and located on the Northwest corner of North Hermit Smith Road and U.S. 441 intersection. (Parcel ID No. 01-21-27-0000-00-001)



# CITY OF APOPKA PLANNING COMMISSION

X PUBLIC HEARING

SITE PLAN

SPECIAL REPORTS

X OTHER:

MEETING OF: March 13, 2018

FROM: Community Development EXHIBITS: Future Land Use Report

Vicinity Map

Future Land Use Map

Zoning Map

Adjacent Uses Map

SUBJECT: COMPREHENSIVE PLAN – SMALL SCALE - FUTURE LAND USE

AMENDMENT - KEENEY HARRY CHARLES MCALLISTER

PARCEL ID NO: 01-21-27-0000-00-001

REQUEST: SMALL SCALE FUTURE LAND USE AMENDMENT

FROM: "COUNTY" RURAL

TO: "CITY" COMMERCIAL (MAXIMUM OF 0.25 FAR)

**SUMMARY**:

OWNER: Keeney Harry Charles McAllister

APPLICANT: Tannath Design, Inc.

LOCATION: Northwest corner of North Hermit Smith Road and U.S. 441 intersection

EXISTING USE: Woodlands

CURRENT ZONING: "County" A-1 (ZIP)

PROPOSED DEVELOPMENT: Convenience Market w/ vehicle fuel service (This parcel will be used for

landscape buffer area.)

PROPOSED ZONING: "City" PUD (Note: this Future Land Use amendment request is being

processed along with a request to change the zoning classification from

"County" A-1 (ZIP) to "City" PUD (Planned Unit Development).

TRACT SIZE: 0.04 +/- acres

**MAXIMUM ALLOWABLE** 

DEVELOPMENT: EXISTING: Vacant

PROPOSED: Up to 479 sq. ft. service station

**FUNDING SOURCE: N/A** 

**DISTRIBUTION** 

Mayor KilsheimerFinance DirectorPublic Services DirectorCommissionersHR DirectorRecreation Director

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

ADDITIONAL COMMENTS: The subject parcel was annexed into the city on January 17, 2018 by Ordinance Number 2627. Presently, the subject property does not have a "city" future land use designation or "city" zoning classification assigned. The applicant's intent for the "Commercial" Future Land Use Designation is to incorporate this parcel with the north-adjacent parcel, 1102 Hermit Smith Road. The applicant is applying for "Planned Unit Development" for the two parcels to accommodate a service station.

<u>COMPREHENSIVE PLAN COMPLIANCE</u>: The proposed use of the property is consistent with the Commercial Future Land Use designation. Site development cannot exceed the intensity allowed by the Future Land Use policies. Planning & Zoning staff determines that the below policies support a Commercial FLUM designation at the subject site:

Future Land Use Element

# 1. **Policy 3.1.i**

# Commercial

Primary uses shall be for business, commerce, and convenience shopping which may be neighborhood or community oriented. The maximum floor area ratio shall be .25 gross floor area. Institutional land uses of less than five acres; and public facilities or utilities of less than five acres. Planned Unit Development uses may include: (Policy 3.1.i)

- 1. All primary uses
- 2. All Special Exception uses
- 3. Multifamily Development of up to fifteen dwelling units per acre, when located within a primary use structure
- 4. Other uses deemed compatible with and complimentary to the other proposed master planned uses and the surrounding neighborhoods.

**SCHOOL CAPACITY REPORT:** Because this request represents a change to a non-residential future land use designation and zoning classification, school capacity determination by Orange County Public Schools is not required.

# **ORANGE COUNTY NOTIFICATION:**

The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City properly notified Orange County on February 12, 2018.

# **PUBLIC HEARING SCHEDULE:**

March 13, 2018 - Planning Commission (5:30 pm) March 21, 2018 - City Council (7:00 pm) - 1<sup>st</sup> Reading April 4, 2018 - City Council (1:30 pm) - 2<sup>nd</sup> Reading and Adoption

# **DULY ADVERTISED:**

February 23, 2018 – Public Notice and Notification

# **RECOMMENDATION ACTION:**

The **Development Review Committee** recommends approval to transmit a change in Future Land Use from "County" Rural to "City" Commercial for the property owned by Kenney Harry Charles McAllister Trust, subject to the information and findings in the staff report.

**Planning Commission Recommended Motion:** Find the proposed Future Land Use amendment consistent with the Comprehensive Plan and compatible with the character of the surrounding area, and recommend approval of the change of Future Land Use Designation from "County" Rural to "City" Commercial, subject to the findings of the Staff Report.

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.

# LAND USE REPORT

# I. RELATIONSHIP TO ADJACENT PROPERTIES:

Direction	Future Land Use	Zoning	Present Use
North (City)	"County" Rural	"County" A-1 (ZIP	Woodlands
East (City)	"County" Rural	"City" A-1 (ZIP)	Woodlands/Grasslands
South (County)	Rural (1 D/U per 10 Acres)	"County" C-3 & R-3	Single-family homes
West (City)	"County" Rural	"County" A-1 (ZIP)	Woodlands

The concept plan shows proposed accesses on S.R. 441 and Hermit Smith Road.

# II. LAND USE ANALYSIS

The subject property is located on a site that is ideal for commercial use, which makes the request for a Commercial future land use designation consistent with the Comprehensive Plan policies listed above, as well as the general future land use character of the surrounding area.

Properties to the south and west are developed as existing single-family homes, which properties to the east and north are vacant, but have a future land use designation and zoning classification that permit single-family residential.

The proposed Residential Low Suburban future land use designation is consistent with the general future land use character of the surrounding area.

Wekiva River Protection Area: <u>No</u> Area of Critical State Concern: <u>No</u>

DRI / FQD: No

JPA: The City of Apopka and Orange County entered into a Joint Planning Area (JPA) agreement on October 26, 2004. The subject property is located within the "Northern Area" of the JPA. The proposed FLUM Amendment request for a change from "County" Rural (0-10 du/ac) to "City" Commercial (Max. 0.25 FAR) is consistent with the terms of the JPA (Second Amendment). Tannath Design, Inc., is the applicant of the proposed future land use amendment and proposed change of zoning for the Property, and has been notified of the hearing schedule.

<u>Transportation:</u> Road access to the site is from West Orange Blossom Trail to the South and Hermit Smith Road to the East.

Wekiva Parkway and Protection Act: The proposed amendment has been evaluated against the adopted Wekiva Study Area Comprehensive Plan policies. The proposed amendment is consistent with the adopted mandates and requirements. The proposed Future Land Use Map (FLUM) amendment has been reviewed against the best available data, with regard to aquifer and groundwater resources. The City of Apopka's adopted Comprehensive Plan addresses aquifer recharge and stormwater run-off through the following policies:

- Future Land Use Element, Policies 4.16, 14.4, 15.1, 16.2 and 18.2
- Infrastructure Element, Policies 1.5.5, 4.2.7, 4.4, 4.4.1, 4.4.2 and 4.4.3
- Conservation Element, Policy 3.18

# PLANNING COMMISSION – MARCH 13, 2018 KEENEY HARRY CHARLES MCALLISTER – SMALL SCALE FUTURE LAND USE AMENDMENT PAGE 5

<u>Karst Features:</u> The Karst Topography Features Map from the Florida Department of Environmental Protection shows that there are karst features in the vicinity of this property.

Analysis of the character of the Property: The current use of the Property is vacant and heavily wooded

Analysis of the relationship of the amendment to the population projections: The proposed future land use designation for the property is Commercial (max FAR 0.25). Based on the housing element of the City's Comprehensive Plan, this amendment will not increase the City's future population

# **CALCULATIONS:**

ADOPTED: 1 Unit(s) x 2.659 p/h = 3 persons

PROPOSED: N/A, no residential

<u>Housing Needs</u>: This amendment will not negatively impact the housing needs as projected in the Comprehensive Plan.

Habitat for species listed as endangered, threatened or of special concern: A habitat study is required for developments greater than ten (10) acres in size. At the time the Master Site Plan or Preliminary Development Plan is submitted to the City, the development applicant must conduct a species survey and submit a habitat management plan if any threatened or endangered species are identified within the project site.

<u>Transportation</u>: The City of Apopka is a Transportation Concurrency Exception Area. Refer to Chapter 3 of the City of Apopka 2010 Comprehensive Plan.

# Sanitary Sewer Analysis

1. Facilities serving the site; current LOS; and LOS standard: None; 81 GPD/Capita; 81 GPD / Capita

If the site is not currently served, please indicate the designated service provider: <u>City of Apopka</u>

- 2. Projected total demand under existing designation: 196 GPD
- 3. Projected total demand under proposed designation: 72 GPD
- 4. Capacity available: Yes
- 5. Projected LOS under existing designation: 81 GPD/Capita
- 6. Projected LOS under proposed designation: 81 GPD/Capita
- 7. Improved/expansions already programmed or needed as a result if proposed amendment: None

# Potable Water Analysis

1. Facilities serving the site; current LOS; and LOS standard: None; 177 GPD/Capita; 177 GPD / Capita

# PLANNING COMMISSION – MARCH 13, 2018 KEENEY HARRY CHARLES MCALLISTER – SMALL SCALE FUTURE LAND USE AMENDMENT PAGE 6

If the site is not currently served, please indicate the designated service provider: <u>City of Apopka</u>

- 2. Projected total demand under existing designation: 210 GPD
- 3. Projected total demand under proposed designation: 96 GPD
- 4. Capacity available: Yes
- 5. Projected LOS under existing designation: 177 GPD / Capita
- 6. Projected LOS under proposed designation: 177 GPD / Capita
- 7. Improved/expansions already programmed or needed as a result of the proposed amendment: None
- 8. Parcel located within the reclaimed water service area: Yes

# Solid Waste

- 1. Facilities serving the site: <u>City of Apopka</u>
- 2. If the site is not currently served, please indicate the designated service provider: <u>City of Apopka</u>
- 3. Projected LOS under existing designation: 12 lbs/ day
- 4. Projected LOS under proposed designation: 1 lbs / day
- 5. Improved/expansions already programmed or needed as a result of the proposed amendment: None

This initial review does not preclude conformance with concurrency requirements at the time of development approval.

Infrastructure Information

Water treatment plant permit number: <u>CUP No. 3217</u>

Permitting agency: St. John's River Water Management District

Permitted capacity of the water treatment plant(s): 9.353 MGD

Total design capacity of the water treatment plant(s): 33.696 MGD

Availability of distribution lines to serve the property: Yes

Availability of reuse distribution lines available to serve the property: Yes

**Drainage Analysis** 

1. Facilities serving the site: None

# PLANNING COMMISSION – MARCH 13, 2018 KEENEY HARRY CHARLES MCALLISTER – SMALL SCALE FUTURE LAND USE AMENDMENT PAGE 7

- 2. Projected LOS under existing designation: 100 year 24 hour design storm
- 3. Projected LOS under proposed designation: 100 year 24 hour design storm
- 4. Improvement/expansion: On site retention / detention ponds

# Recreation

- 1. Facilities serving the site; LOS standard: City of Apopka Parks System; 3 acre / 1000 capita
- 2. Projected facility under existing designation: 0.009 acres
- 3. Projected facility under proposed designation: N/A acres
- 4. Improvement/expansions already programmed or needed as a result of the proposed amendment: N/A

Standards set forth in the City's Land Development Code will require any development plans to provide parkland and recreation facilities and open space for residents residing with the new development.

This initial review does not preclude conformance with concurrency requirements at the time of development approval.



Kenney Harry Charles McAllister 0.04 +/- acres

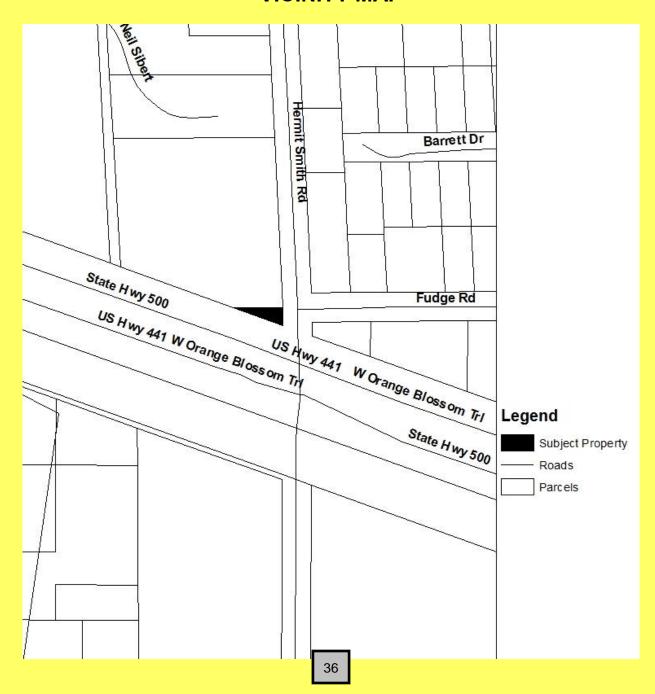
**Proposed Small Scale Future Land Use Amendment:** 

From: "County" Rural
To: "City" Commercial
Proposed Change of Zoning:

From: A-1 (ZIP)
To: PUD

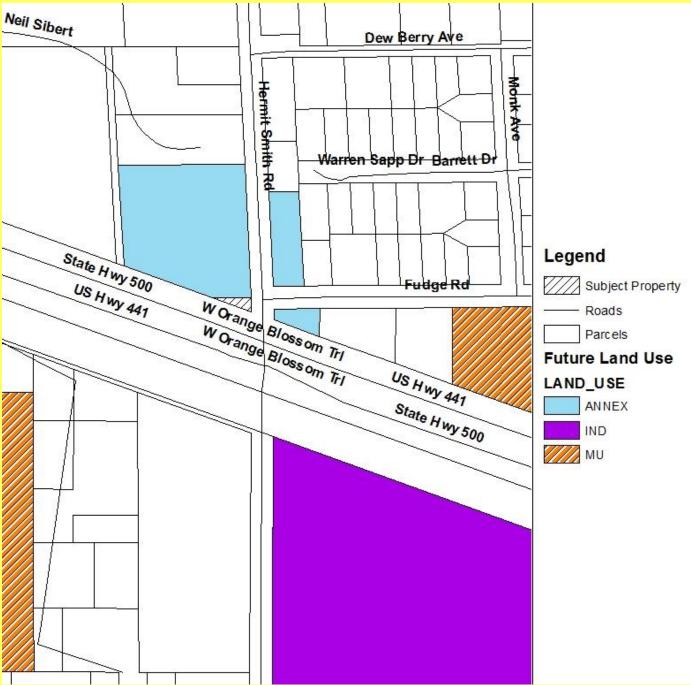
Parcel ID #: 01-21-27-0000-00-001

# **VICINITY MAP**



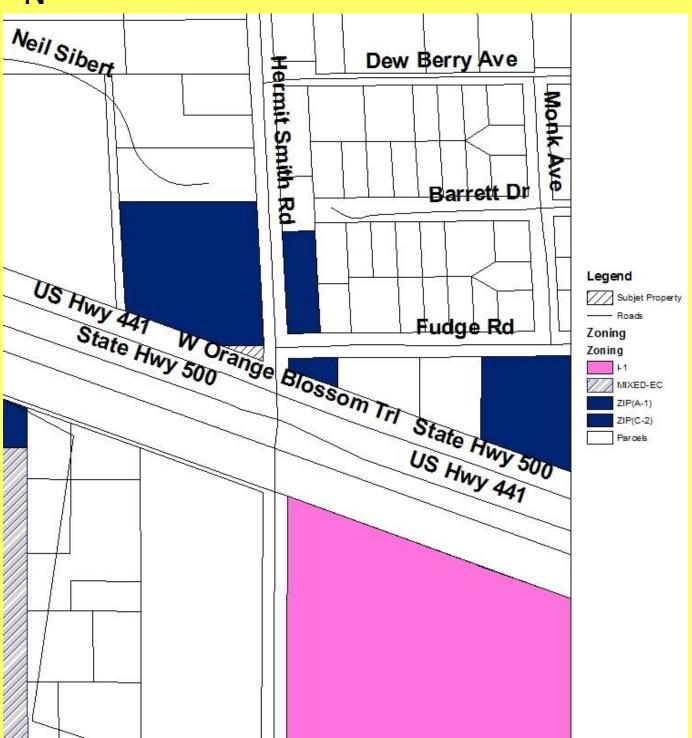


## **FUTURE LAND USE MAP**





## ADJACENT ZONING





## **ADJACENT USES**



Planning Commission March 13, 2018 Page 40

## Backup material for agenda item:

2. CHANGE OF ZONING – From "County" A-1 (Agricultural) to "City" Planned Unit Development (PUD/Commercial) for property owned by Keeny Harry Charles McAllister and located on the Northwest corner of North Hermit Smith Road and U.S. 441 intersection. (Parcel ID No. 01-21-27-0000-00-001)



# CITY OF APOPKA PLANNING COMMISSION

X PUBLIC HEARING

SITE PLAN

SPECIAL REPORTS

X OTHER:

MEETING OF: March 13, 2018

FROM: Community Development

EXHIBITS: Zoning Report

Vicinity Map Zoning Map

Adjacent Uses Map

**SUBJECT:** CHANGE OF ZONING – KEENEY HARRY CHARLES MCALLISTER

PARCEL ID NO: 01-21-27-0000-00-001

REQUEST: CHANGE OF ZONING

FROM: "COUNTY" A-1 (AGRICULTURRAL)

TO: "CITY" PLANNED UNIT DEVELOPMENT (PUD/COMMERCIAL)

**SUMMARY**:

OWNER: Keeney Harry Charles McAllister

APPLICANT: Tannath Design, Inc.

LOCATION: Northwest corner of North Hermit Smith Road and U.S. 441 intersection

EXISTING USE: Vacant - Woodlands

CURRENT ZONING: "County" A-1 (ZIP)

DEVELOPMEN POTENTIAL: Maximum 482 sq. ft. commercial use (Max. 0.25 floor area ratio)

PROPOSED ZONING: "City" PUD (Note: this Future Land Use amendment request is being

processed along with a request to amend the Future Land Use from "County"

Rural to "City" Commercial (Max. 0.25 FAR)

TRACT SIZE: 0.04 +/- acres

**MAXIMUM ALLOWABLE** 

DEVELOPMENT: EXISTING: Vacant

PROPOSED: Up to 479 sq. ft. service station

**FUNDING SOURCE: N/A** 

DISTRIBUTION

Mayor KilsheimerFinance DirectorPublic Services DirectorCommissionersHR DirectorRecreation Director

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

<u>ADDITIONAL COMMENTS</u>: Presently, the subject property has not yet been assigned a "City" zoning category. The applicant is requesting the City to assign a zoning classification of PUD (Planned Unit Development) to the property, which will be incorporated with the PUD in the north adjacent parcel.

The subject parcel was annexed into the city on January 17, 2018 by Ordinance Number 2627.

A request to assign a change of zoning to PUD is compatible to the adjacent zoning classifications and with the general character of abutting properties and surrounding area. The change of zoning request is being processed in conjunction with a future land use amendment from "County" Rural to "City" Commercial.

<u>COMPREHENSIVE PLAN COMPLIANCE</u>: The existing and proposed use of the property is consistent with the proposed Commercial (Max. 25% Floor Area Ratio) Future Land Use designation and the City's proposed Planned Unit Development Zoning classification. Site development cannot exceed the intensity allowed by the Future Land Use policies.

<u>SCHOOL CAPACITY REPORT</u>: The proposed future land use change will result in an insignificant increase (less than 9) in the number of residential units which could be developed at the subject property. Therefore, the property is exempt from school capacity enhancement per the School Interlocal Planning Agreement.

**ORANGE COUNTY NOTIFICATION:** The JPA requires the City to notify the County 30 days before any public hearing or advisory board. The City properly notified Orange County on February 12, 2018.

## **PUBLIC HEARING SCHEDULE:**

Planning Commission, March 13, 2018 (5:30 pm) City Council, March 21, 2018 (7:00 pm) - 1<sup>st</sup> Reading City Council, April 4, 2018 (1:30 pm) - 2nd Reading

### **DULY ADVERTISED:**

February 23, 2018 -- Public Notice and Notification- (Apopka Chief, letter, posting) March 23, 2018 -- Public Notice (Apopka Chief)

## **RECOMMENDATION ACTION:**

The **Development Review Committee** finds the proposed amendment consistent with the Comprehensive Plan and compatible with the character of the surrounding areas, recommending approval of the proposed Change of Zoning from "County" A-1 to "City" PUD for the property owned by Kenney Harry Charles McAllister, and located at 3591 W. Orange Blossom Trail.

**Recommended Motion**: Planning Staff recommends finding the proposed amendment consistent with the Comprehensive Plan and compatible with the character of the surrounding areas, recommending approval of the proposed Change of Zoning from "County" A-1 to "City" PUD for the property owned by Kenney Harry Charles McAllister, and located at 3591 W. Orange Blossom Trail.

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)	"County" Rural	"City" A-1 (ZIP)	Woodlands
East (City)	"County" Rural	A-1 (ZIP)	Woodlands/Grasslands
South (County)	Rural (1 D/U per 10 Acres)	"County" C-3 & R-3	Single-Family Homes
West (City)	"County" Rural	"County" A-1 (ZIP)	Woodlands

# LAND USE & TRAFFIC COMPATIBILITY:

The concept plan for the PUD proposes accesses on West Orange Blossom Trail and Hermit Smith Road

# COMPREHENSIVE PLAN COMPLIANCE:

The proposed PUD zoning is consistent with the proposed Future Land Use designation, "Commercial" (Max. 25% FAR) and with the character of the surrounding area and future proposed development. Development Plans shall not exceed the density allowed in the adopted Future Land Use designation.

# BUFFERYARD REQUIREMENTS:

- 1. Areas adjacent to all road rights-of-way shall provide a minimum ten-foot landscaped bufferyard.
- 2. Areas adjacent to agricultural and residential uses or districts shall provide a minimum six-foot-high masonry wall within a ten-foot landscaped bufferyard.
- 3. Areas adjacent to nonresidential uses or districts shall provide a minimum of five-foot landscaped bufferyard.
- 4. Landscaping requirements for existing platted lots of record and structures may be approved in a lesser amount than required after review by the development review committee.

#### **PUD CONDITIONS:**

- 1. This Planned Unit Development will be incorporated to the north adjacent PUD at 1102 Hermit Smith Rd.
- 2. The use for this property shall be open space and buffering for the north adjacent development at 1102 Hermit Smith Rd.



Kenney Harry Charles McAllister 0.04 +/- acres

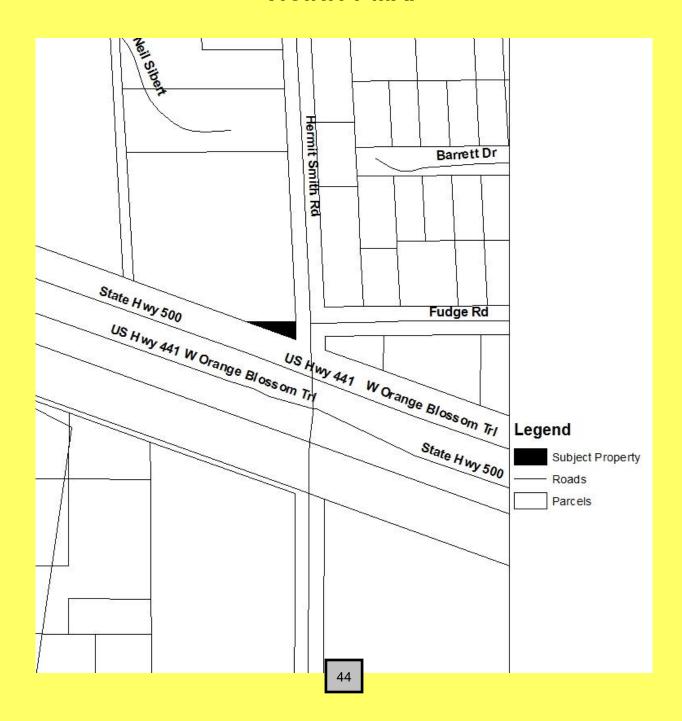
**Proposed Small Scale Future Land Use Amendment:** 

From: "County" Rural
To: "City" Commercial
Proposed Change of Zoning:

From: A-1 (ZIP)
To: PUD

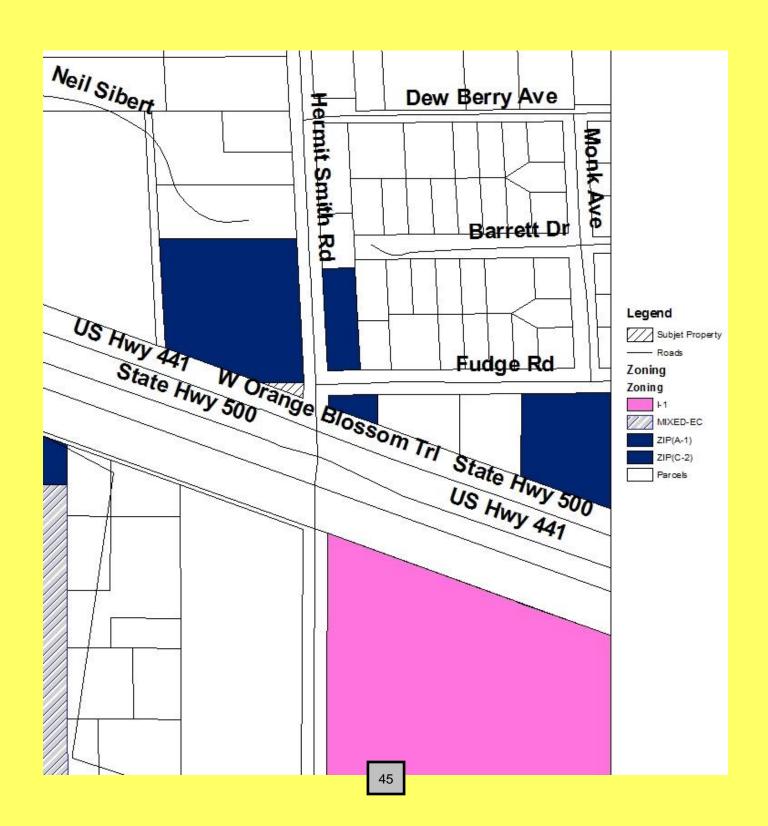
Parcel ID #: 01-21-27-0000-00-001

## **VICINITY MAP**





## **ADJACENT ZONING MAP**





# ADJACENT USES MAP



Planning Commission March 13, 2018 Page 47

## Backup material for agenda item:

3. CHANGE OF ZONING – OAK POINTE - From "County" A-1 (Agricultural) to "City" Planned Unit Development (PUD/Residential); and amendment of Ordinance No. 2584 to incorporate property into the legal description therein, for properties owned by Jason C. Revelle and Thompson Hills Estates, LLC, and located east of Ocoee-Apopka Road, north of McCormick Road. (Parcel ID #s: 29-21-28-0000-00-037; 29-21-28-0000-00-011; 29-21-28-0000-00-016; 29-21-28-0000-00-033; 29-21-28-0000-00-038; 32-21-28-0000-00-030)



OTHER: PUD Master Plan

## CITY OF APOPKA PLANNING COMMISSION

CONSENT AGENDA MEETING OF: March 13, 2018

X PUBLIC HEARING FROM: Community Development SPECIAL REPORTS EXHIBITS: Zoning Report

EXHIBITS: Zoning Report Vicinity Map

Adjacent Zoning Map Adjacent Uses Map Existing Use Map

> Ex. A - Revelle Survey -- Location Ex. B - Master Site Plan Sheet Ex. C - Landscape Plan Sheet

Ex. D - Entire PUD Master Plan\PDP Plan

**SUBJECT:** CHANGE OF ZONING – OAK POINTE – FROM "COUNTY" A-1 TO

"CITY" PLANNED UNIT DEVELOPMENT (PUD); AND AMENDMENT OF ORDINANCE 2584 TO INCORPORATE PROPERTY INTO THE LEGAL

**DESCRIPTION THEREIN** 

PARCEL ID NUMBERS: 29-21-28-0000-00-037; 29-21-28-0000-00-011; 29-21-28-0000-00-016; 29-21-28-0000-00-033;

29-21-28-0000-00-038; 32-21-28-0000-00-004; 32-21-28-0000-00-030

REQUEST: RECOMMEND APPROVAL OF THE CHANGE OF ZONING

FROM: "COUNTY" A-1

TO: "CITY" PLANNED UNIT DEVELOPMENT (PUD)

**SUMMARY**:

OWNERS: Jason C. Revelle, Thompson Hills Estates, LLC

APPLICANT: Evans Engineering, Inc.

LOCATION: East of Ocoee-Apopka Road, north of McCormick Road

EXISTING USE: Single-family residential (Revelle Parcel\Jones Addition) and

Existing Oak Pointe PUD Residential Community (vacant)

FLUM DESIGNATION: Residential Low (0 – 5 units per acre), both the Revelle Parcel and the

existing Oak Pointe PUD.

CURRENT ZONING: "County" A-1, City of Apopka PUD

PROPOSED DEVELOPMENT: Add the 0.97 acre Revelle parcel to boundaries of the Oak Pointe

PUD, and increase the number of townhomes in the Oak Pointe PUD from 106 to 120 unit for a total of 118 single family homes; 120

townhome units (238 units total)

PROPOSED ZONING: Planned Unit Development (PUD)

TRACT SIZE: Parcel to be rezoned -- 0.97 acres (+/-)

Total PUD area -- 69.38 +/- acres

**DISTRIBUTION** 

Mayor Kilsheimer
Commissioners
City Administrator
Community Development Director

Finance Director
HR Director
IT Dir
Police
48

Public Services Director Recreation Director City Clerk Fire Chief ADDITIONAL COMMENTS: On December 20, 2017 the City Council approved Ordinance 2584, which approved a PUD Master Plan for a 69.7 acre residential development known as Oak Pointe. The approved Oak Pointe PUD Master Plan consists of 118 single-family and 106 townhome units. Prior to the approval of Ordinance 2584, the property owner of the Oak Pointe PUD entered into an agreement to purchase a 0.96 acre parcel located at 1751 Irmalee Lane, which is currently owned by Jason C. Revelle. The Revelle Parcel (aka Jones Additon) is surrounded by and interior to the Oak Pointe PUD. The legal description for Ordinance 2584, and the approved Oak Pointe PUD Master Plan did not include the legal description Mr. Revelle's property. As a result, the applicant is requesting the following actions:

- 1) Rezone Mr. Revelle's property from Orange County A-1 to City of Apopka PUD (Planned Unit Development).
- 2) Incorporate the legal description of Mr. Revelle's property into the overall legal description of Ordinance 2584 (the Oak Pointe PUD).
- 3) Amend the Oak Pointe PUD Master Plan to include six townhome units on Mr. Revelle's property, and eight additional townhomes within the existing Oak Pointe PUD, adjacent to Tract L-3, for an increase in the amount of townhomes in the Oak Pointe PUD from 106 to 120. There will be no increase in the amount of single-family units located within the Oak Pointe PUD. No other changes are proposed to the Oak Pointe PUD.
- 4) The Revelle parcel, when incorporated into the Oak Pointe PUD, will be owned by Thompson Hill Estates LLC, and will be subject the terms and conditions sheet forth in the Oak Pointe PUD and its development agreement.

**PROJECT DESCRIPTION:** The amended PUD Master Plan includes 120 townhomes and 118 single family homes within a gated community with private streets. A single master homeowners association will serve both the single family homes and townhomes. The following development standards are proposed:

- Single family lots typically have a minimum width of 70 feet and a minimum lot area of 8,400 sq. ft., a minimum house livable area of 1,500 sq. ft., and a minimum two-car enclosed garage. A small percentage of single family lots (6.8% totaling 8 lots) have a minimum typical lot width of 65 feet and a minimum lot area of 7,800 sq. ft., also with a minimum house livable area of 1,500 sq. ft. and a minimum two-car enclosed garage. No three-car garages are allowed.
- Townhomes will have a minimum lot width of 23 feet and a minimum lot area of 2,530 sq. ft. All townhome units offer a one-car enclosed garage. No two-car enclosed garages are proposed by the developer. Seventy-five (75) units have a one-car driveway; 31 units have a two-car driveway. On-Street parking and a parking lot are provided for the townhomes and community park (Tract K-6).
- Two parks are provided and will be accessible to all residents. Tract N-1 provides a community swimming pool and a cabana with a parking lot. A second community park provides outdoor recreation on 2.03 acres (Tract K-6) and includes a fenced-in dog park.
- Access to the Oak Pointe Community will occur through a road connection to McCormick Road and a future road connection to Ocoee-Apopka Road. A gate will be located at both the north and south entrances. An emergency gate will be located on the eastern boundary, connecting to Pelock Drive within the Apopka Woods community.

## PLANNING COMMISSION – MARCH 13, 2018 OAK POINTE – CHANGE OF ZONING PAGE 3

• Perimeter buffers include: a ten foot buffer with a six-foot high brick wall along the western property line adjacent to S.R. 429, a six-foot high vinyl fence within a ten foot buffer next to the Apopka Woods community and next to the County's Northwest Reclamation facility.

Existing Conditions: The Oak Point PUD consists of 69.38 acres serviced by a gated private right-of-way noted on the Master Plan as Street "I". The site typically has a flat topography with no wetlands. The property is located along the north side of McCormick Road. The City of Ocoee is situated along the south side of McCormick Road. The proposed residential PUD Master Plan abuts land zoned commercial located to the south. The commercial land is not part of the PUD and is located between McCormick Road and the single family residential area delineated on the Master Plan. Located to the east of the site is Apopka Woods a 76 lot, single family residential neighborhood. Typical lots within Apopka Woods have a minimum width of 70 feet and a minimum land area of 7,500 sq. ft. The Orange County Northwest Reclamation Water Facility is located on portions of the northern and northwest boundaries of the property. Directly to the south of Oak Pointe is a private gated residential community located in the City of Ocoee; McCormick Woods, with typical lot sizes of 70 x 125 (8,750 sq. ft.).

<u>Annexation History</u>: The subject properties were annexed into the City via Ordinance 1651 on December 18, 2002.

Amenities: The Master Plan includes two recreation tracts:

## 1. Tract N-1-0.8 acres

- Swimming Pool.
- Pool area surrounded by a 36" viburnum hedge, crepe myrtles, magnolia trees, live oak trees, and approved ground cover.
- Pool parking lot 13 parking plus one handicap parking space.
- Bike rack located adjacent to parking lot.
- 2,200 +/- SF Cabana located next to the pool surrounded by landscaping that blends with the pool landscaping.
- The cabana will be partially open, with the open area surrounded by a four foot metal guardrail/fence.
- A paved sidewalk from the Cabana connects to the sidewalk along Street I.
- An outdoor shower will be placed on both the east and west sides of the building.
- The pool and cabana are appropriately located near the center of the development, easily accessible to both the single family residential units and the townhome.

### 2. Tract K-6-2.05 acres

- Two multi-purpose playing fields.
- Mulched walking trail around the perimeter of the Tract.
- Paved sidewalk will placed along the west side of the park, connecting Street I with the Tot Lot, Dog Park, and parking lot.
- Paved sidewalk will connect the parking lot at Tract O-1 with the paved sidewalk along the west side of the park.
- Three picnic tables.
- Litter receptacle 24" X 30" size.
- Eight benches, each with armrests.
- Tot Lot with playground equipment slides, climbing equipment.
- Dog park with five foot high vinyl coated chain link fence, screened with a viburnum hedge.
- Dogipot aluminum pet station with pet was eptacle.
- Dog park will be handicap accessible.

#### PLANNING COMMISSION – MARCH 13, 2018 OAK POINTE – CHANGE OF ZONING PAGE 4

- Bike rack located in Tract K-5, between the parking lot and sidewalk along the west side of the park.
- Pedestrian level lighting
- Park area surrounded by a viburnum hedge, sabal palms, crepe myrtles, magnolia trees, live oak trees, and approved ground cover.

<u>PUD RECOMMENDATIONS</u>: That the zoning classification for the Revelle Parcl is proposed to be PUD and the amendment to the Oak Point PUD incorporates the Revelle property into its boundaries. A summary of the amendments are as follows:

#### Amendment

- 1. The Oak Pointe PUD is amended to include the Ravelle property. (Parcel identification number: 29-21-28-0000-00-037)
- 2. The Ravelle property shall be subject to all the development standards and conditions set forth in Ordinance 2584.
- 3. The Ravelle property shall be subject to any Development Agreement approved by the City Council for the Oak Pointe PUD.
- 4. The maximum number of townhome units for the Oak Pointe PUD is increased from 106 to 120.

<u>COMPREHENSIVE PLAN COMPLIANCE</u>: The existing and proposed use of the property is consistent with the Residential Low Future Land Use designation and is consistent with the Land Development Code subject to the recommended DRC development conditions.

**SCHOOL CAPACITY REPORT:** The current capacity enhancement agreement must be amended with OCPS or a letter provided by OCPS prior to City approval of a final development.

**ORANGE COUNTY NOTIFICATION:** Pursuant to Section 7 of the Joint Planning Area agreement, notification to Orange County is not required for a rezoning application as the subject parcel being incorporated into the PUD is not adjacent to unincorporated Orange County. As a courtesy, the City notified Orange County and the City of Ocoee on February 21, 2018.

### **PUBLIC HEARING SCHEDULE:**

March 13, 2018 - Planning Commission (5:30 pm) April 4, 2018 - City Council (1:30 pm) - 1st Reading April 18, 2018 - City Council (7:00 pm) - 2nd Reading

## **DULY ADVERTISED:**

February 27, 2018 – Public Notice; Letter, Poster February 23, 2018 – Public Notice (Apopka Chief)

## **RECOMMENDED ACTION:**

The **Development Review Committee** finds the proposed amendment consistent with the Comprehensive Plan and Land Development Code and recommends approval of the amended Oak Pointe Planned Unit Development Master Plan/Preliminary Development Plan subject to the DRC Conditions of Approval.

**Recommended Motion:** Find the proposed amendments to be consistent with the Comprehensive Plan and Land Development Code, and recommend to approve the rezoning of the Revelle Parcel from Orange County "A-1" to City of Apopka PUD (Planned Unit Development), and amend Ordinance 2584 to incorporate the Revelle Parcel into the legal description of Ordinance 2584, and the amended Oak Pointe PUD Master Plan/Preliminary Development Plan to increase the maximum number of townhomes to 120.

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 (County)	Rural (0-1 du/10 ac)	A-1	Northwest Water Reclamation Facility
East (City)	Residential Low (0-5 du/ac)	R-2	Apopka Woods subdivision
South (City)	Commercial (max 0.25 FAR)	C-1	Vacant commercial\McCormick Rd
West (City & County)	"City" Mixed Use & "County" Rural (0-1 du/10 ac)	Mixed-EC & A-1	SR 429 ROW & Retention Pond

LAND USE &

TRAFFIC COMPATIBILITY: The property has access to a Major Arterial roadway (McCormick

Road) and future access to Ocoee Apopka Road to the north. A proposed internal spine road be a private gated road and provide connectivity to both Ocoee Apopka Road to the north and McCormick Road to the south for future residents of Oak Pointe. Future land use designations and zoning categories assigned to properties to the north,

south, east, and west are predominantly residential and rural.

COMPREHENSIVE

**PLAN COMPLIANCE:** The proposed PUD zoning is compatible with policies set forth in the

Comprehensive Plan.

**ALLOWABLE** 

**USES:** Single-family and townhome residential uses set forth within the

Planned Unit Development Master Plan.



Thompson Hills Estates LLC (Oak Pointe PUD)

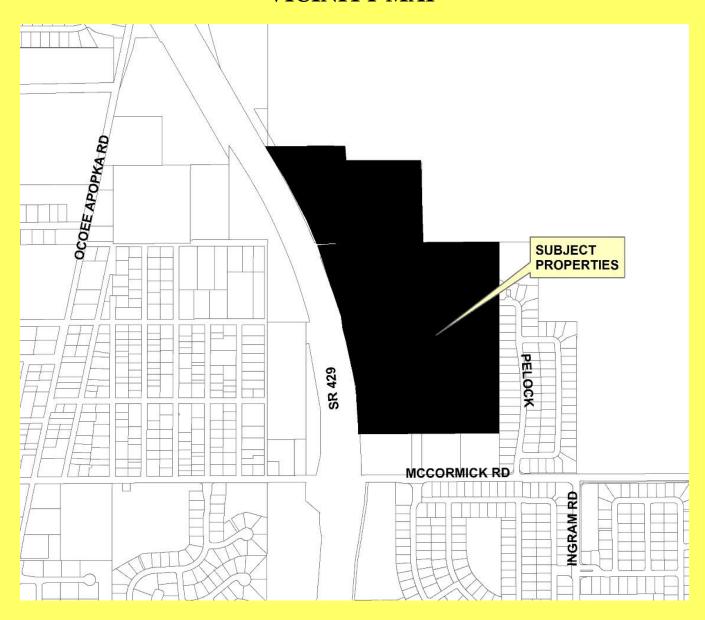
0.97 +/- Acres

Proposed Change of Zoning: From: Orange County A-1

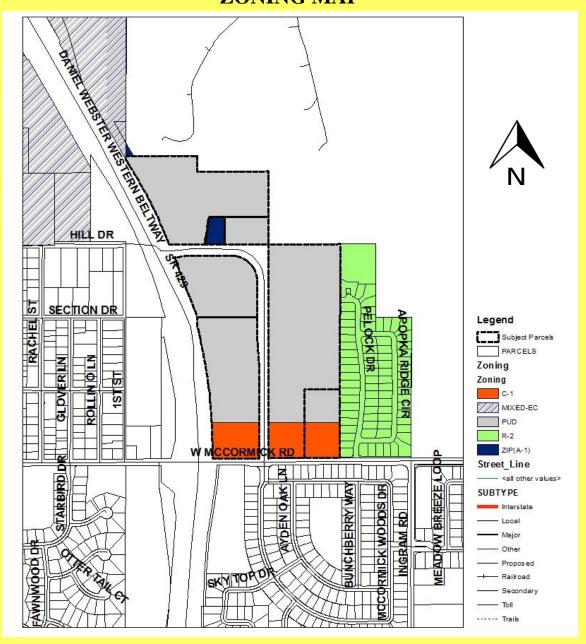
To: Planned Unit Development (New Master Site Plan)

Parcel ID #: 29-21-28-0000-00-037

# **VICINITY MAP**



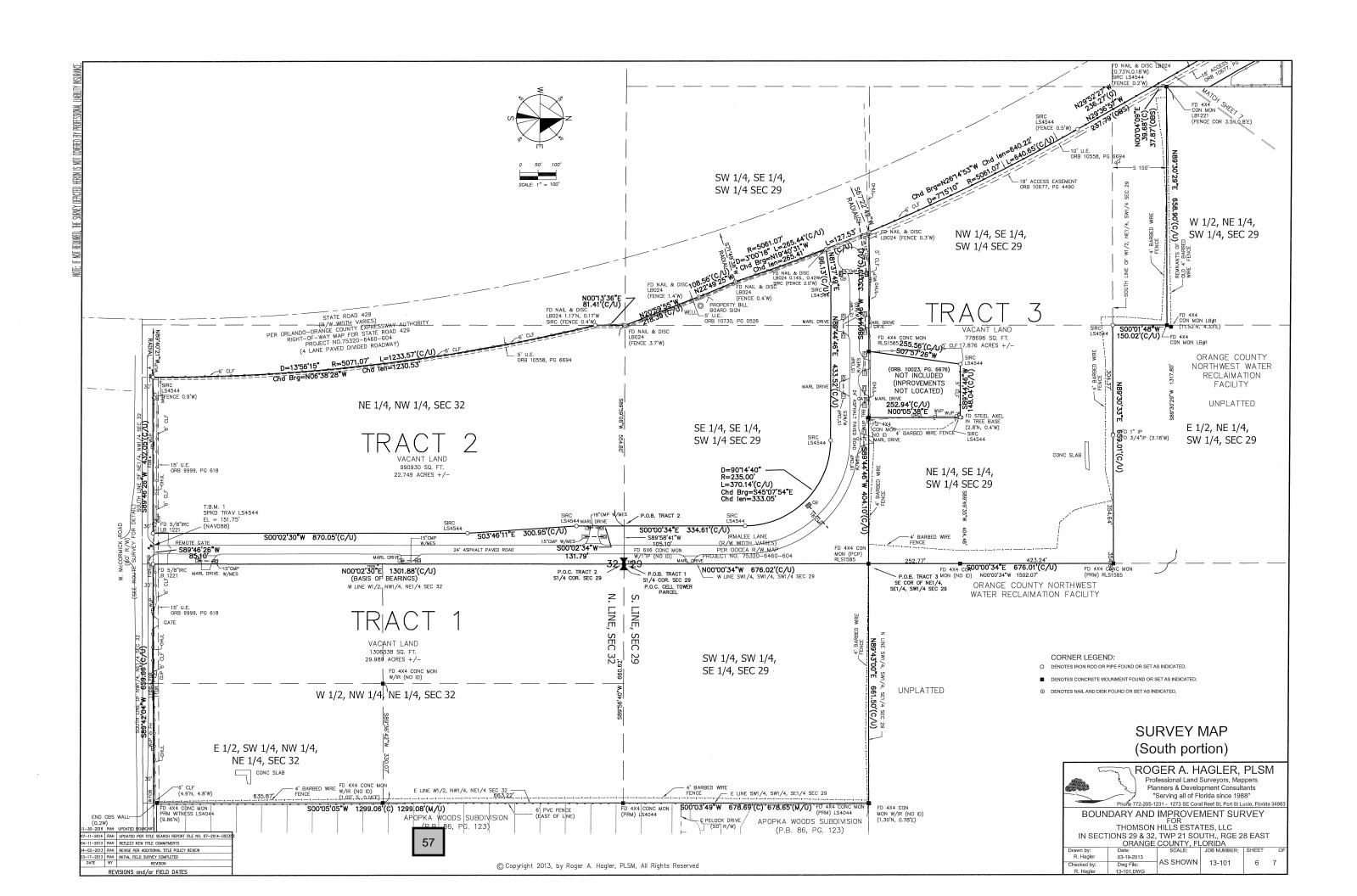
## **ZONING MAP**

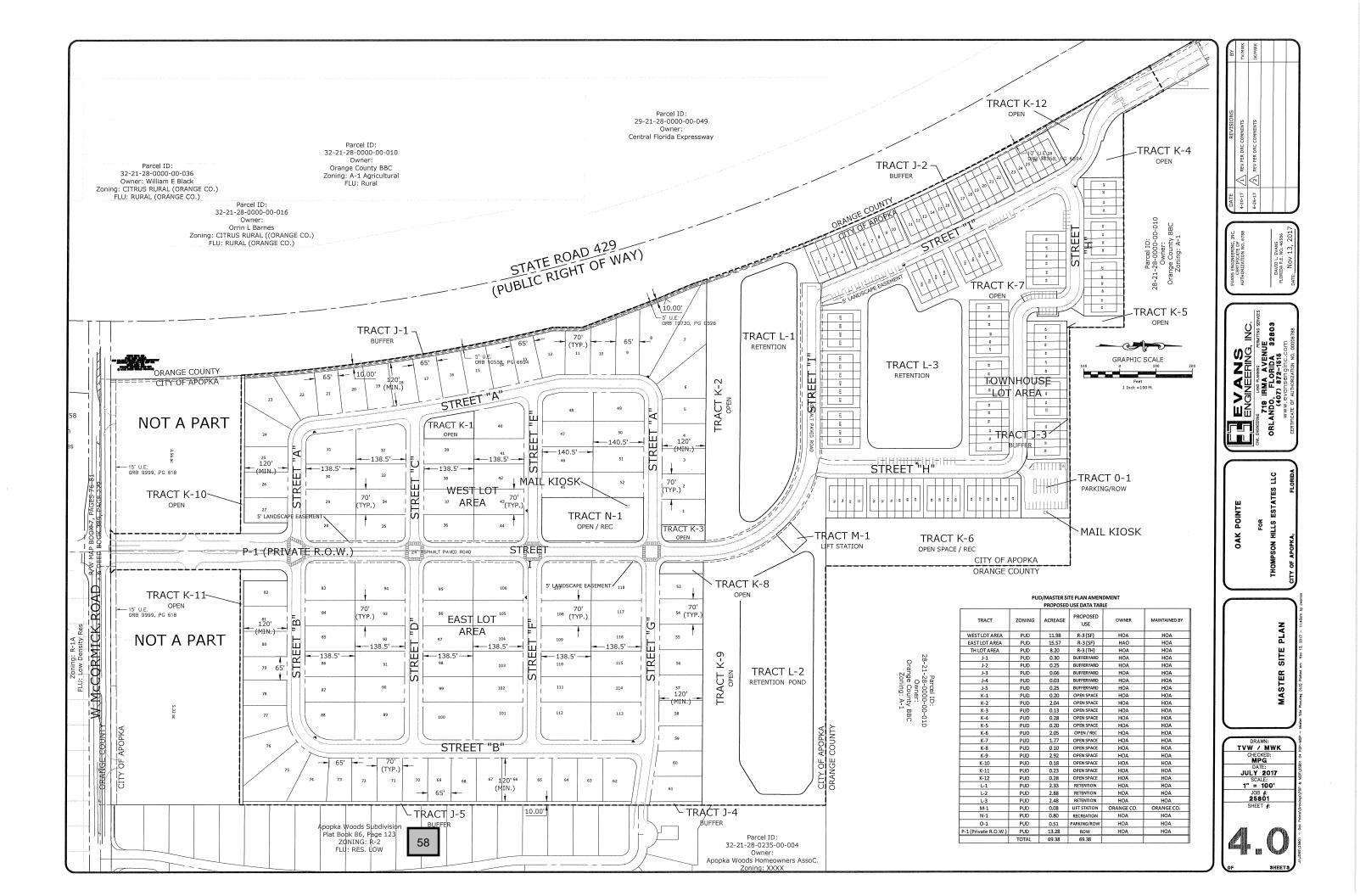


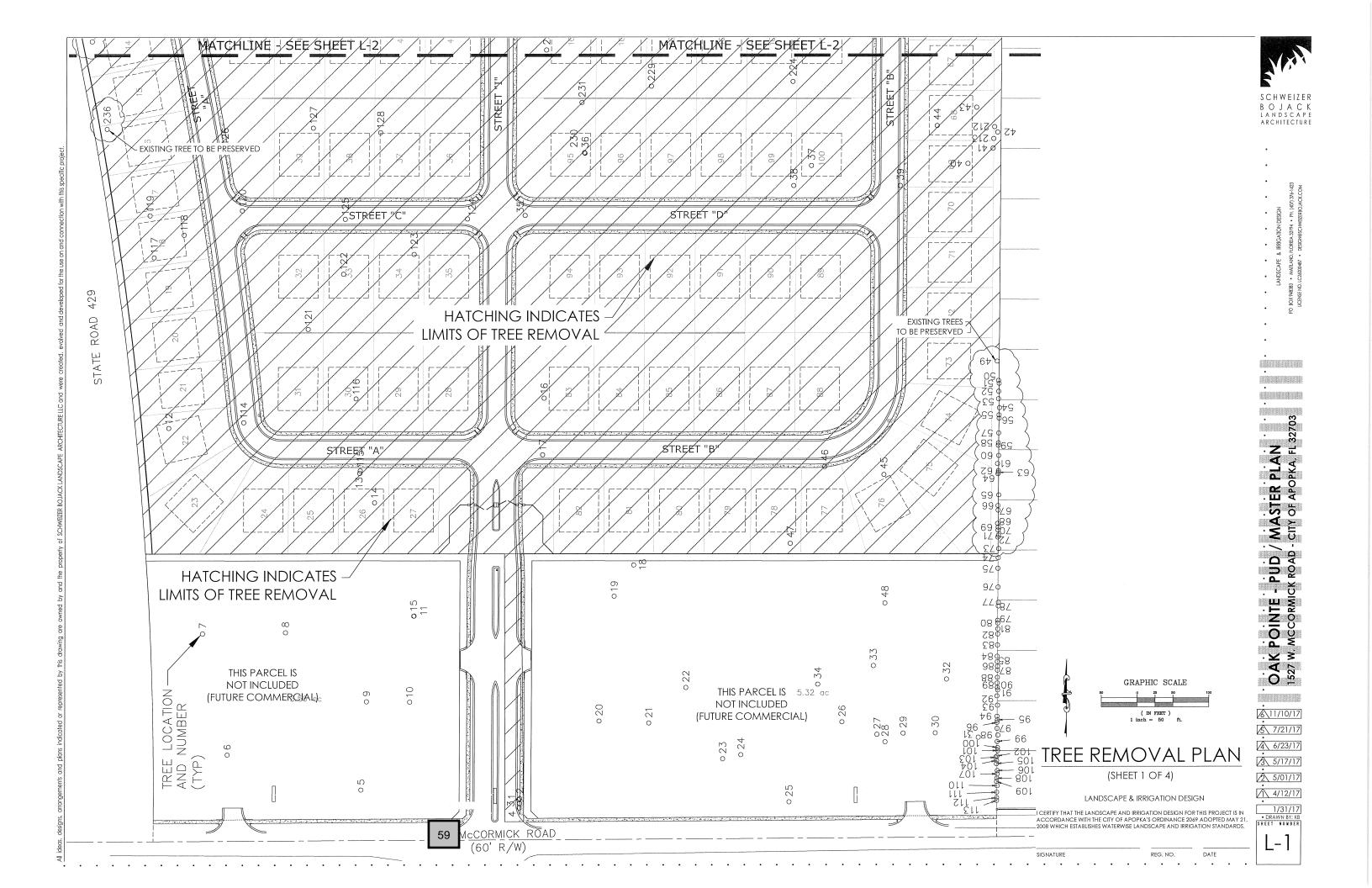


# **ADJACENT USES**









# CITY OF APOPKA, FLORIDA PUD/ MASTER PLAN

# MASTER & PRELIMINARY DEVELOPMENT PLANS

# PARCEL ID. NUMBERS:

29-21-28-0000-00-011, 29-21-28-0000-00-016, 29-21-28-0000-00-033 AND PORTIONS OF

29-21-28-0000-00-038, 32-21-28-0000-00-004, 32-21-28-0000-00-030

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L12	TOWNHOMES LIFT STATION & PARK LANDSCAPE PLANS
A1-A3	ARCHITECTURAL ELEVATIONS

# NOVEMBER 13, 2017

APPLICANT / OWNER THOMPSON HILLS ESTATES, LLC 207 ISLAND DRIVE. JUPITER, FLORIDA 33477 PHONE: (561)746-8848 CONTACT: MALCOLM JONES

SURVEYOR

ROGER A. HAGLER, P.L.S.M. PROFESSIONAL LAND SURVEYORS, MAPPERS 585 ORANGE AVE. SEBASTIAN, FLORIDA 32958

PHONE: (772)205-1231 CONTACT: ROGER A. HAGLER, P.L.S.M. **ENGINEER** 

EVANS ENGINEERING, INC. 719 IRMA AVENUE ORLANDO, FLORIDA 32803 PHONE: (407)872-1515 CONTACT: DAVID EVANS, P.E.

**GEOTECHNICAL ENGINEER** 

ARDAMAN & ASSOCIATES 8008 SOUTH ORANGE AVENUE ORLANDO, FLORIDA 32809 PHONE: (407)855-3860 CONTACT: CHUCK CUNNINGHAM

STATEMENT OF INTENDED USE: THE DEVELOPMENT OF A 224 LOT SINGLE FAMILY SUBDIVISION

PROJECT ADRESS: 1527 W. MCCORMICK ROAD APOPKA, FLORIDA 32703



VICINITY MAP N.T.S.

BEGINNING AT THE SOUTH 1/4 CORNER OF SAID SECTION 29, SAID POINT-OF-BEGINNING ALSO BEING ON THE EASTERLY RIGHT-OF-WAY LINE OF IRMALEE LANE AS SHOWN ON OOCEA RIGHT-OF-WAY MAP, PROJECT NO. 75320-6460-604; THENCE RUN ALONG SAID RIGHT-OF-WAY LINE AND THE WEST LINE OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4 NORTHEAST 1/4 OF THE SOUTHWEST 1/4 OF THE SOUTHWEST

DISTANCE OF 662 29 FEET TO THE NORTHEAST CORNER OF SAID SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SOUTHEAST 1/4 A DISTANCE OF 679 97 FEET TO THE SOUTHEAST CORNER OF SAID SOUTHWEST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4. THENCE RUN SOUTH 00°05′25" WEST ALONG THE EAST LINE OF THE WEST 1/2 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF AFORESAID SECTION 32. A DISTANCE OF 1299.53 FEET TO A POINT OF INTERSECTION WITH A LINE LYING 30 FEET NORTH OF AN PARALLEL WITH THE SOUTH LINE OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SAID SECTION 32, SAID LINE ALSO BEING THE NORTH RIGHT-OF-WAY LINE OF WEST MCCORMICK ROAD AS LAID OUT AND IN USE; THENCE RUN SOUTH 89°44'22" WEST ALONG SAID RIGHT-WAY LINE, A DISTANCE OF 659.62 FEET TO THE EASTERLY

RIGHT-OF-WAY LINE OF AFORESAID IRMALEE LANE; THENCE RUN NORTH 00°02'30" EAST ALONG SAID RIGHT-OF-WAY LINE AND THE WEST 1/2 OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF SAID SECTION 32, A DISTANCE

COMMENCING AT THE SOUTH 1/4 CORNER OF SAID SECTION 29 SAID POINT ALSO BEING ON THE EASTERLY RIGHT-OF-WAY LINE OF IRMALEE LANE AS SHOWN ON OOCEA RIGHT-OF-WAY MAP PROJECT NO 75320-6460-604: THENCE RUN

SECTION 32 SAID LINE ALSO BEING THE NORTH RIGHT-OF-WAY LINE OF WEST MCCORMICK ROAD AS LAID OUT AND IN LISE. THENCE, RUN SOUTH 89°46′26″ WEST ALONG SAID RIGHT-OF-WAY LINE A DISTANCE OF 432.05 FEET TO A POINT OF INTERSECTION WITH THE EASTERLY LIMITED ACCESS RIGHT-OF-WAY LINE OF STATE ROAD 429. AS SHOWN ON THE ORLANDO ORANGE COUNTY EXPRESSWAY AUTHORITY RIGHT-OF-WAY MAP. PROJECT NO. 75320-6460-604: THENCE ALONG THE SAID EASTERLY LIMITED ACCESS RIGHT-OF-WAY LINE FOR THE FOLLOWING FIVE (5) COURSES, THE FIRST BEING FROM A POINT ON A CURVE NON-TANGENT TO THE PRECEEDING COURSE, CONCAVE TO THE WEST, HAVING A RADIUS

13°56'23", A DISTANCE OF 1233.75 FEET TO A POINT OF NON-TANGENCY; THENCE NORTH 00°13'36" EAST, A DISTANCE OF 81.23 FEET; THENCE NORTH 21°02'59" WEST, A DISTANCE OF 218.39 FEET; THENCE NORTH 22°49'25" WEST, A DISTANCE OF 108.56 FEET TO A POINT ON A CURVE BEING NON-TANGENT TO THE PRECEEDING COURSE, CONCAVE TO THE WEST, HAVING A RADIUS OF 5061.07 FEET, A CHORD OF NORTH 19°40'31" WEST, 265.41 FEET AND FROM WHICH A RADIAL LINE BEARS SOUTH 71°49'38" WEST: THENCE RUN NORTHWESTERLY ALONG THE ARC OF SAID CURVE. SUBTENDED BY A CENTRAL ANGLE OF 3°00'18". A DISTANCE OF 265.44 FEET TO A POINT OF INTERSECTION WITH THE AFORESAID

RIGHT-OF-WAY LINE OF IRMALEE LANE; THENCE DEPARTING FROM SAID EASTERLY LIMITED ACCESS RIGHT-OF-WAY LINE, RUN ALONG THE RIGHT-OF-WAY LINE OF IRMALEE LANE FOR THE FOLLOWING FOUR (4) COURSES, FIRST NORTH 81°37'49" EAST, A DISTANCE OF 93.13 FEET; THENCE NORTH 89°44'46" EAST, A DISTANCE OF 433.52 FEET TO THE BEGINNING OF A CURVE, CONCAVE TO THE SOUTHWEST, HAVING A RADIUS OF 235.00 FEET AND A CHORD OF SOUTH 45°07'54"

EAST, 333.05 FEET; THENCE SOUTHEASTERLY ALONG THE ARC OF SAID CURVE, SUBTENDED BY A CENTRAL ANGLE OF 90°14'40", A DISTANCE OF 370.14 FEET TO THE END OF SAID CURVE; THENCE RUN SOUTH 00°00'34" EAST, A DISTANCE OF

BEGINNING AT THE SOUTHEAST CORNER OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST

SOUTHWEST 1/4 OF SAID SECTION 29, A DISTANCE OF 404.10 FEET TO A POINT AT THE SOUTHEAST CORNER OF THOSE LANDS DESCRIBED IN THAT CERTAIN WARANTY DEED RECORDED IN OFFICIAL RECORD BOOK 10023 AT PAGE 6676 OF

FOR THE PURPOSE OF THIS DESCRIPTION ALL BEARINGS ARE REATIVE TO THE FLORIDA STATE PLANE SYSTEM, NATIONAL ADJUSTED DATUM OF 1983 (NAD83), EAST ZONE TRANSVERSE MERCATOR, ZONE FL83-EF.

SOUTH 89°58'41" WEST, A DISTANCE OF 105.10 FEET TO A POINT ON THE WESTERLY RIGHT-OF-WAY LINE OF SAID IRMALEE LANE AND THE POINT-OF-BEGINNING OF THE PARCEL INTENDED TO BE DESCRIBED;

FOR THE PURPOSE OF THIS DESCRIPTION ALL BEARINGS ARE REATIVE TO THE FLORIDA STATE PLANE SYSTEM. NATIONAL ADJUSTED DATUM OF 1983 (NAD83). EAST ZONE TRANSVERS

A PARCEL OF LAND SITUATE IN SECTION 29, TOWNSHIP 21 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS

A PARCEL OF LAND SITUATE IN SECTIONS 29 AND 32. TOWNSHIP 21 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

# UTILITY COMPANIES

ORANGE COUNTY UTILITIES 9150 CURRY FORD RD. 2ND FLOOR ORLANDO, FLORIDA 32825

WASTEWATER ORANGE COUNTY UTILITIES 9150 CURRY FORD RD. 2ND FLOOR ORLANDO, FLORIDA 32825

RECLAIMED WATER ORANGE COUNTY UTILITIES 9150 CURRY FORD RD. 2ND FLOOR ORLANDO, FLORIDA 32825

**STORMWATER** ST. JOHNS RIVER WATER MANAGEMENT DISTRICT 601 SOUTH LAKE DESTINY RD. SUITE 200 MAITLAND, FL 32751

BRIGHTHOUSE NETWORKS. CENTURY LINK 3767 ALL AMERICAN BLVD. ORLANDO, FLORIDA 32810 (407)291-2500

BRIGHTHOUSE NETWORKS. CENTURY LINK 3767 ALL AMERICAN BLVD. ORLANDO, FLORIDA 32810 (407)291-2500

LAKE APOPKA NATURAL GAS 1320 S. VINELAND ROAD WINTER GARDEN, FLORIDA 34777 (407)656-2734

**DUKE ENERGY** P.O. BOX 14042 ST. PETERSBURG, FLORIDA 33733

# PLAN PROVIDED FOR:

■ PRELIMINARY PLAN

☐ RECORD DRAWING

\* THIS PLAN SHALL NOT BE USED FOR CONSTRUCTION UNLESS APPROVED FOR CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL PERMITS HAVE BEEN OBTAINED PRIOR TO STARTING CONSTRUCTION



LOCATION OF UNDERGROUND UTILITIES.

ALL RESIDENTIAL ARCHITECTURAL APPEARANCE SHALL BE IN ACCORDANCE WITH THE APOPKA DEVELOPMENT DESIGN GUIDELINES, OR ALTERNATIVE DEVELOPMENT DESIGN STANDARDS, SUBJECT TO APPROVAL BY THE COMMUNITY DEVELOPMENT DEPARTMENT.

☐ CONSTRUCTION SET

ENGINEERING, INC. 719 IRMA AVENUE ORLANDO, FLORIDA 32803 (407) 872-1515

www.evansenginc.com

CERTIFICATE OF AUTHORIZATION NO. 00006788

□ BID SET

PERMIT REVIEW SET

THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA: THENCE TRAVERSE SAID LANDS FOR THE FOLLOWING THREE (3) COURSES, FIRST NORTH 00°05'38" EAST. A DISTANCE OF 252 94 FEET: THENCE SOUTH 89°44'46" WEST. A DISTANCE OF 148.04 FEET; THENCE SOUTH 07°57'26" WEST, A DISTANCE OF 255.56 FEET BACK TO THE AFORESAID RIGHT-OF-WAY OF IRMALEE LANE; THENCE RUN SOUTH 89°44'46" WEST ALONG SAID RIGHT-OF-WAY, A DISTANCE OF 330.19 FEET TO A POINT BEING A POINT ON A NON-TANGENT CURVE, CONCAVE TO THE SOUTHWEST, HAVING A RADIUS OF 5061.07 FEET, A CHORD OF NORTH 26°14'53" WEST, 640.22 FEET AND FROM WHICH A RADIAL LINE BEARS SOUTH 67°22'42" WEST; THENCE RUN NORTHWESTERLY ALONG THE ARC OF SAID CURVE. SUBTENDED BY A CENTRAL ANGLE OF 7°15′10". A DISTANCE OF 640.65 FEET: THENCE CONTINUE ALONG SAID LIMITED ACCESS RIGHT-OF-WAY LINE NORTH 29°36′57" WEST A DISTANCE OF 237.79 FEET TO A POINT OF INTERSECTION WITH THE EAST LINE OF THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SAID SECTION 29: THENCE DEPARTING FROM SAID LIMITED ACCESS RIGHT-OF-WAY LINE AND ALONG THE EAST LINE OF THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SAID SECTION 29, NORTH 00°04′09" EAST, A DISTANCE OF 37.87 FEET TO A POINT OF INTERSECTION WITH A LINE LYING 150 FEET NORTH OF AND PARALLEL WITH THE SOUTH INE OF THE WEST 1/2 OF THE NORTHEAST 1/4 OF THE SOUTHWEST 1/4 OF SAID SECTION 29; THENCE RUN NORTH 89°30′29" EAST ALONG SAID PARALLEL LINE, A DISTANCE OF 658.90 FEET TO THE EAST LINE OF SAID WEST 1/2; THENCE RUN SOUTH 00°01'48" WEST ALONG SAID EAST LINE, A DISTANCE OF 150.02 FEET TO THE SOUTH LINE OF THE EAST 1/2 OF THE NORTHEAST 1/4 OF THE SOUTHWEST 1/4 OF SAID SECTION 29; THENCE RUN NORTH 89°30'33" EAST ALONG SAID SOUTH LINE, A DISTANCE OF 659.01 FEET TO THE SOUTHEAST CORNER OF SAID EAST 1/2; THENCE RUN SOUTH 00°00'34" EAST ALONG THE EAST LINE OF SAID EAST 1/2, A DISTANCE OF 676.01 FEET BACK TO THE POINT OF BEGINNING THE ABOVE DESCRIBED PARCEL CONTAINS 990921 SQUARE FEET OR 22,748 ACRES MORE OR LESS.

S 29&32, T 21S, R 28E

LEGAL DESCRIPTION

334.61 FEET BACK TO THE POINT-OF-BEGINNING

THE ABOVE DESCRIBED PARCEL CONTAINS 1307158 SQUARE FEET OR 30.008 ACRES MORE OR LESS.

# Design Standards

# Lot Criteria

Setback Table	Single Family	Townhomes
Front Porch(1)	19'	N/A
Front (Garage)	30'	22'
Front (Building)	25'	22'
Rear	20'	15'
Side	7.5'	10' Ext. 0' Int.
Side Street(2)	15'	15'
Accessory Structure Rear	5'	N/A
Lot Dimensions		
Minimum Lot Area	7,800 SF (0.179 AC)	2,530 SF
Minimum Lot Width	70' *	23'
Minimum Lot Depth	120'	110'
Max lot coverage	75%	75%
Max Building Height	35' / 2 stories	35' / 2 stories
Minimum Living Area	1,500 SF	1,350 SF

## \*MINIMUM LOT WIDTH NOTE:

THE FOLLOWING LOTS OF A MINIMUM LOT WIDTH OF 65': 9, 13, 17, 21, 69, 73, 77, 79

	Count	Percentage
65' Width Lots	8	6.8%
70' Width Lots	110	93.2%
Total Lots	118	100.0%

# **SINGLE- FAMILY LOT DATA:**

			1			
Lot Number	Lot Width* (ft.)	Lot Area (ac.)		Lot Number	Lot Width* (ft.)	Lot Area (ac.)
1	70.0	0.193		41	70.0	0.223
2	70.0	0.193		42	70.0	0.223
3	70.0	0.193		43	70.0	0.223
4	70.0	0.193		44	77.5	0.243
5	70.0	0.192		45	70.0	0.226
6	76.3	0.288		46	70.0	0.226
7	70.6	0.401		47	70.0	0.226
8	71.0	0.440		48	77.9	0.250
9	65.0	0.251		49	79.7	0.255
10	70.0	0.228		50	70.0	0.226
11	70.0	0.195		51	70.0	0.226
12	70.7	0.213		52	70.0	0.226
13	66.3	0.181		53	70.0	0.193
14	71.4	0.194		54	70.0	0.193
15	71.4	0.194		55	70.0	0.193
16	71.4	0.194		56	70.0	0.193
17	66.3	0.181		57	70.0	0.193
18	71.4	0.194		58	70.0	0.193
19	71.4	0.194		59	70.0	0.194
20	71.4	0.194		60	70.0	0.207
21	66.5	0.181		61	70.0	0.223
22	70.5	0.233		62	92.4	0.238
23	71.1	0.291		63	70.0	0.193
24	71.2	0.248		64	70.0	0.193
25	70.0	0.193		65	70.0	0.193
26	70.0	0.193		66	70.0	0.193
27	70.0	0.193		67	70.0	0.193
28	77.5	0.243		68	70.0	0.193
29	70.0	0.222		69	65.0	0.179
30	70.0	0.222		70	70.0	0.193
31	82.6	0.275		71	70.0	0.193
32	110.7	0.328		72	70.0	0.193
33	70.0	0.222		73	65.0	0.184
34	70.0	0.222		74	70.7	0.238
35	77.5	0.243		75	70.3	0.380
36	77.5	0.243		76	70.3	0.299
37	70.0	0.223		77	65.3	0.205
38	70.0	0.223		78	70.0	0.193

79

80

70.0 65.0

70.0

0.179

0.193

Lot Number	LOT MIGHT.	Lot Area
	(ft.)	(ac.)
81	70.0	0.193
82	70.0	0.193
83	110.1	0.346
84	70.0	0.222
85	70.0	0.222
86	70.0	0.222
87	70.0	0.222
88	85.9	0.305
89	105.1	0.331
90	70.0	0.223
91	70.0	0.223
92	70.0	0.223
93	70.0	0.223
94	110.1	0.346
95	110.2	0.348
96	70.0	0.223
97	70.0	0.223
98	70.0	0.223
99	70.0	0.223
100	105.0	0.331
101	105.0	0.331
102	70.0	0.223
103	70.0	0.223
104	70.0	0.223
105	70.0	0.223
106	110.3	0.348
107	110.3	0.346
108	70.0	0.222
109	70.0	0.222
110	70.0	0.222
111	70.0	0.222
112	105.3	0.331
113	105.4	0.332
114	70.0	0.222
115	70.0	0.223
116	70.0	0.223
117	70.0	0.223
118	110.4	0.348

Lot Number | Lot Width\* | Lot Area |

# **SITE DATA:**

TOTAL AREA	69.38 AC
PHASES:	1
SINGLE FAMILY UNITS	118
TOWNHOME UNITS	120
TOTAL UNITS	238

## DENSITY (TOTAL UNITS / TOTAL AREA):

238 (UNITS) / 69.38 AC = 3.43 U/AC

## RECREATIONAL AREA:

# REQUIRED (3.6 AC / 1000 PERSONS):

, .	( ) ) ) ) )	, -	
	1 UNIT = 2.6 PERSONS	238	(UNITS) x 2.6 = 619 PERSONS
	619 x (3.6/1000)	=	2.23 AC
RO۱	/IDED		
	TRACT N-1	=	0.80 AC
	TRACT K-6	=	2.03 AC
	TOTAL	=	2.83 AC

## **OPEN SPACE CALCULATIONS:**

<b>REQUIRED:</b>	
SINGLE FAMIL	_`

SINGLE	FAMI	Ľ١
7	ОТЛІ	,

TOTAL AREA	49.69 AC
REQUIRED %	20 %
REQUIRED AREA	9.94 AC

## TOWNHOUSES:

TOTAL AREA	19.69 AC
REQUIRED %	30 %
REQUIRED AREA	5.91 AC

## TOTAL REQ'D OPEN SPACE AREA 15.85 AC

# PROVIDED:

NGLE FAMILY:	
BUFFER YARDS (TRACTS J)	0.58 AC
OPEN SPACE (TRACTS K)	5.80 AC
RETENTION (TRACTS L)	4.97 AC*
RECREATION (TRACTS N)	0.80 AC
SINGLE FAMILY TOTAL	12.15 AC

# **TOWNHOUSE:**

BUFFER YARDS (TRACTS J)	0.31 AC
OPEN SPACE (TRACTS K)	4.58 AC
RETENTION (TRACTS L)	2.48 AC
TOWNHOUSE TOTAL	7.37 AC

#### TOTAL OPEN SPACE PROVIDED 19.52 AC

# \*50% OF TOTAL REQUIRED SINGLE FAMILY OPEN SPACE AREA

## Notes:

- 1. Front Porch Setbacks as allowed per City of Apopka Development Design Guidelines Ord. 2502, July 2016.
- 2. Side Street setback requires no lot frontages on Street I and that the side street setback will not be in front of any front setback of any adjacent lot.

## Architectural, Buildings and Architectural Standards

- 1. Architectural Design shall meet the intent of the City of Apopka Design Development Guidelines Ord. 2502, July 2016.
- 2. Single family detached homes will have two car enclosed garages.
- 3. Townhomes will have a combination of single and two car garages as depicted on the parking plan.
- 4. Mail delivery for SF and Townhomes will be in a Kiosk as located at each amenity area and shown on the Development Plan.

## Utilities and Infrastructure

- 1. Water, sanitary sewer and reclaimed services will be provided by Orange County Utilities.
- 2. Storm water management system shall be designed to comply with the requirements of the City of Apopka and SJRWMD.
- 3. All internal streets and Street 'I' in its entirety from McCormick Road to its northern terminus will be owned and maintained by the HOA, included the landscape medians.
- 4. Street I north of the public portion will be owned and maintained by the HOA.
- 5. Fire protection and a stabilized access road will be provided prior to vertical building construction.
- 6. Five foot concrete sidewalks will be provided on all internal streets per the Engineering Standards manual.
- 7. Electric power will be provided underground. No overhead power service will be permitted with this development.
- 8. Vehicular, pedestrian and accent lighting shall substantially conform to section 3.10 of the City of Apopka Development Design Guidelines.
- 9. A lighting plan must be submitted with the Final Development Plan.
- 10. Street Names will be provided at the time of the Final Development Plan.

## Recreation and Open Space

- 1. Required project open space shall be a minimum of 20% for the Single Family portion and 30% for the townhome portion per the City of Apopka PUD LDC 2.02.18 D. 19. B.
- 2. Project Recreational Area shall be provided at a rate of 3.6 acres per thousand population with 2.6 persons per dwelling unit.
- 3. The recreational tract located in the Single Family area of the project will include a pavilion and swimming pool. This tract will be easily accessible by the single family and townhomes within the development.
- 4. The recreational tract located in the townhome area of the project will include large play fields, benches, a dog park and walking trails. This recreational tract will be easily accessible by the townhomes and single family homes.
- 5. All proposed amenity areas will be shared by the entire residential development.
- 6. The required amenity areas will be completed and open for use by the issuance of the 50th Certificate of Occupancy for all residential units.
- 7. All recreation and open space areas will be owned and maintained by the HOA.

## Buffers and Landscaping

- 1. A 10' buffer will be provided along SR 429 as shown on the landscape plans and consist of a 6' precast stone wall and landscaping.
- 2. A 10' buffer will be provided along the southern boundary of the single family residential and will include a 6' precast stone wall and landscaping.
- 3. A 6' tan vinyl fence will be placed at the north and east property boundary. A 6' tan vinyl fence exists on the west boundary of the Apopka Woods development. The fence proposed on this property will only be installed where there are areas not fenced on the eastern property line. A fencing plan is included in this development proposal.
- 4. Each single family residential lot will include two newly planted trees. The trees planted in the front yards will also serve as the

# Wetlands and Environmental

- 1. There are no wetlands on the proposed site area.
- 2. There is no 100 year flood plain on the proposed site area.
- 3. An erosion protection plan will be submitted during the final development plan process.
- 4. Tree removal and replacement and landscaping will comply with Article V of the City of Apopka Land Development Code.
- 5. Individual Lot Arbor / Clearing permit is required prior to clearing or grading of any lots.

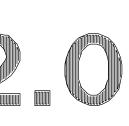
# Miscellaneous

- 1. Any existing septic tanks or wells shall be properly abandoned prior to earthwork or construction permits.
- 2. All acreages are subject to change with the Final Engineering and Final plat review and approval.
- 3. The existing home within the townhome development area will maintain access rights through the proposed private access road.
- 4. Final location of the covered mail kiosk within the townhome community shall be determined at the Final Development Plan. A letter of approval from the Postmaster shall be submitted prior to Final Development Plan approval. The mail kiosk shall have a similar architectural appearances as the townhome buildings.



STANDAR SIGN

TVW / MWK NOV 2017 NTS **258**Ö1 SHEET #:





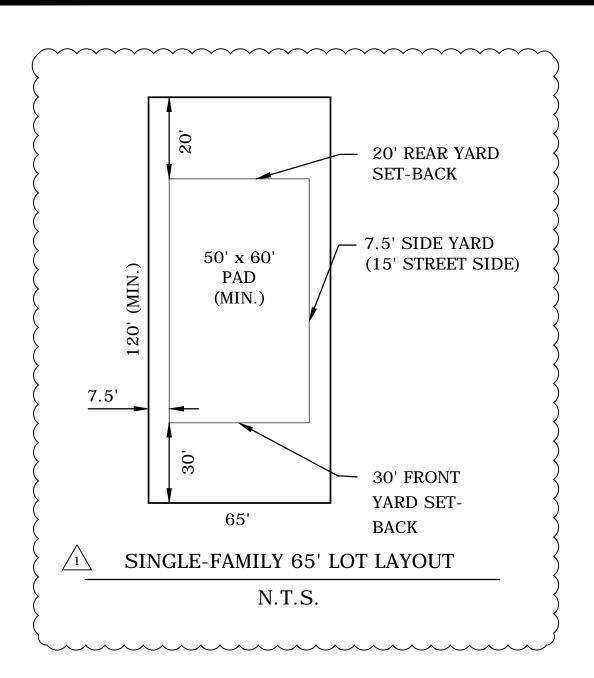
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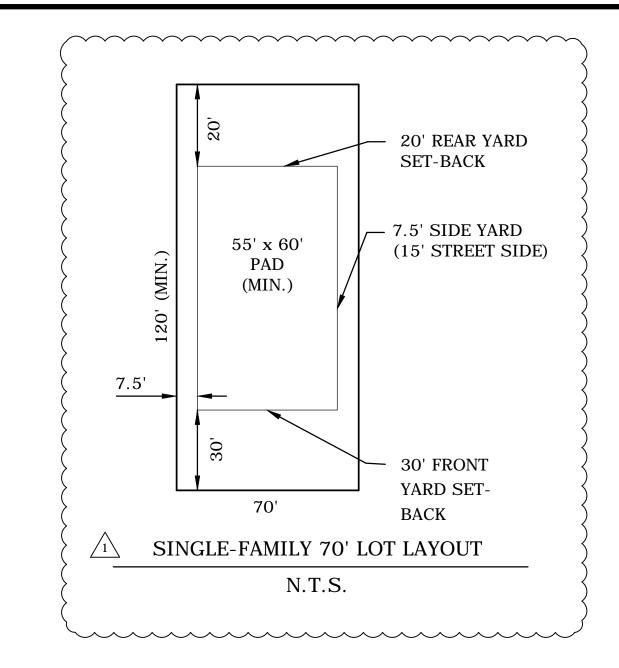
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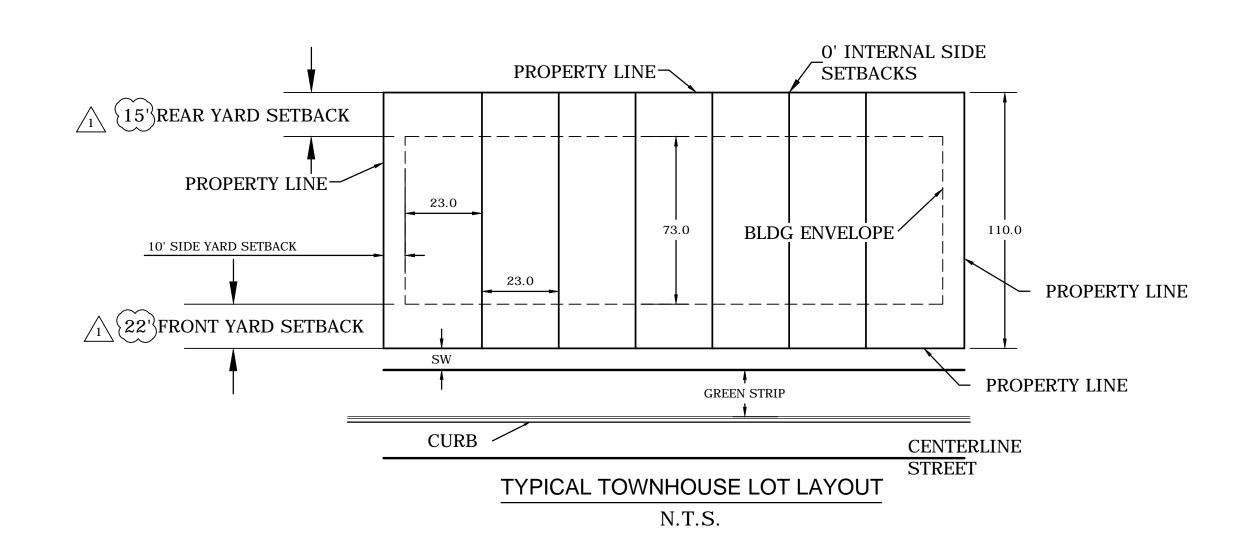
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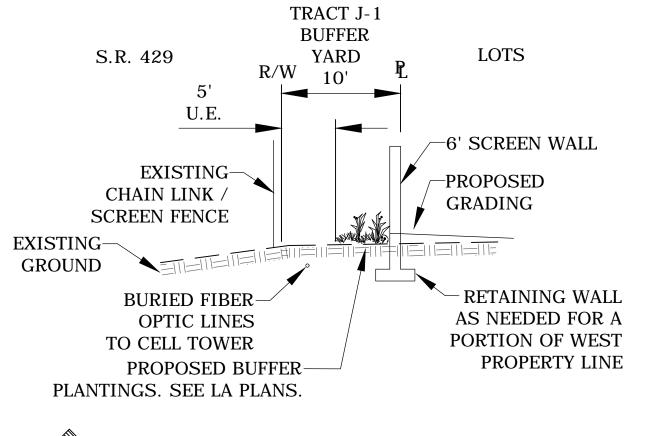
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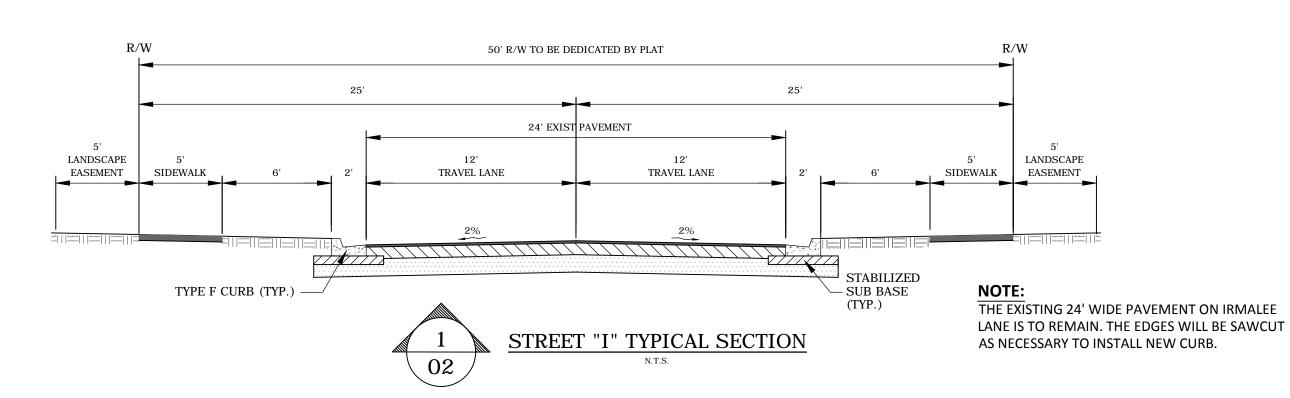


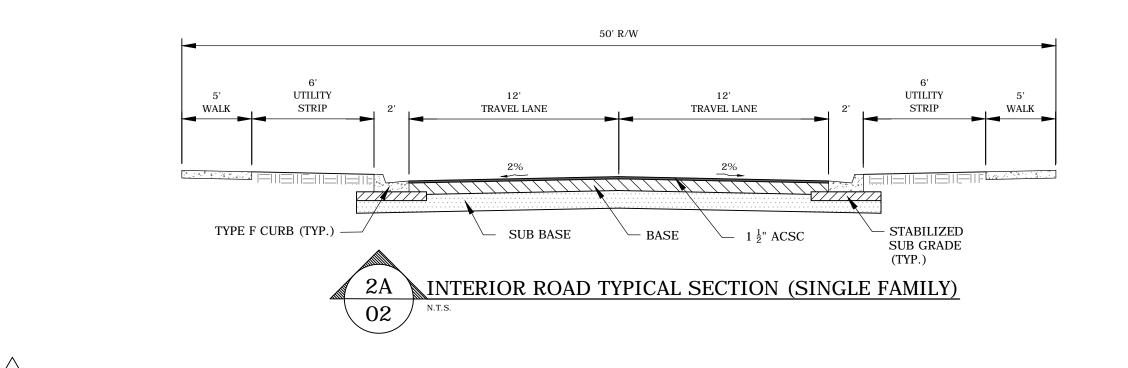


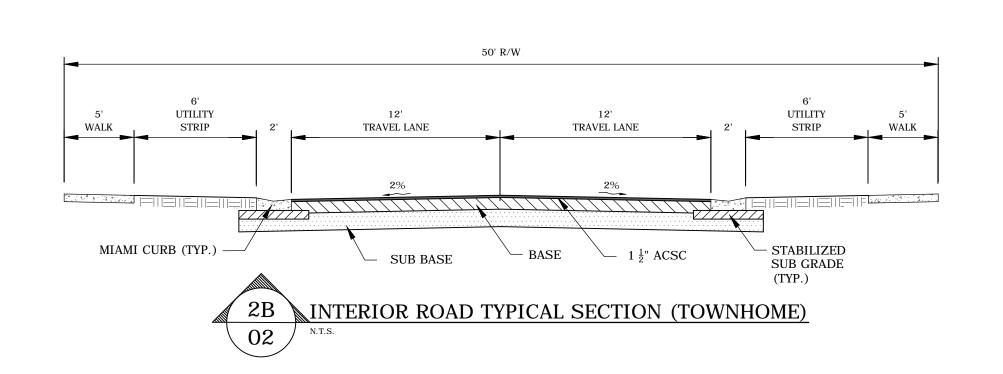


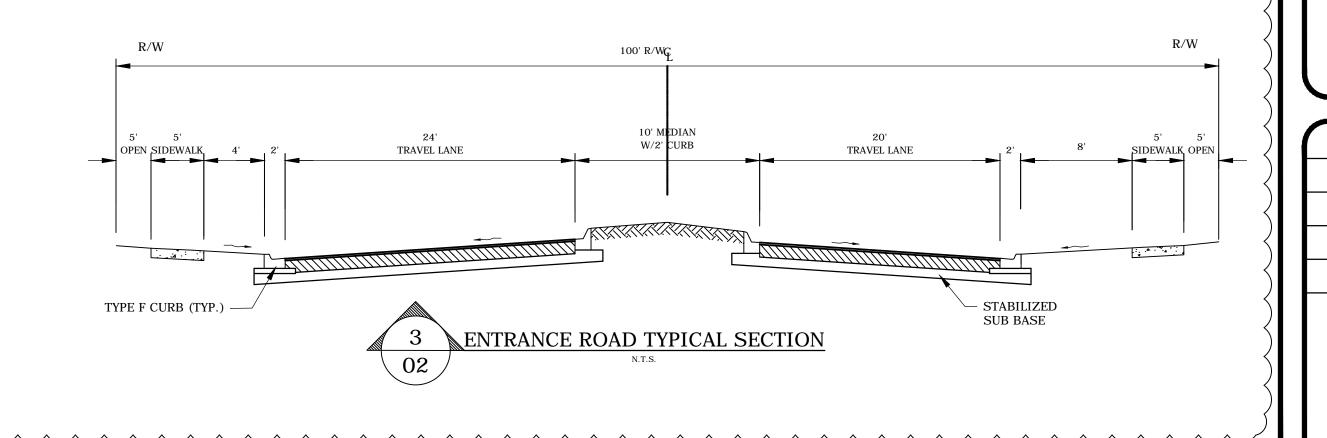












DATE

4-20-17

4-20-17

6-26-17

2 REV PER DRC COMMENTS

JK/MWK

JK/MWK

EVANS ENGINEERING, INC.
CERTIFICATE OF
AUTHORIZATION NO. 6788

DAVID L. EVANS
FLORIDA P.E. NO. 46586

NOV 13, 2017

ENGINEERING, INC.
719 IRMA AVENUE
ANDO, FLORIDA 32803
(407) 872-1515
www.evgnsenginc.com

FOR OMPSON HILLS ESTATES LLC

> GENERAL TAILS AND SECTIONS

DRAWN:

TVW / MWK

CHECKED:

MPG

DATE:

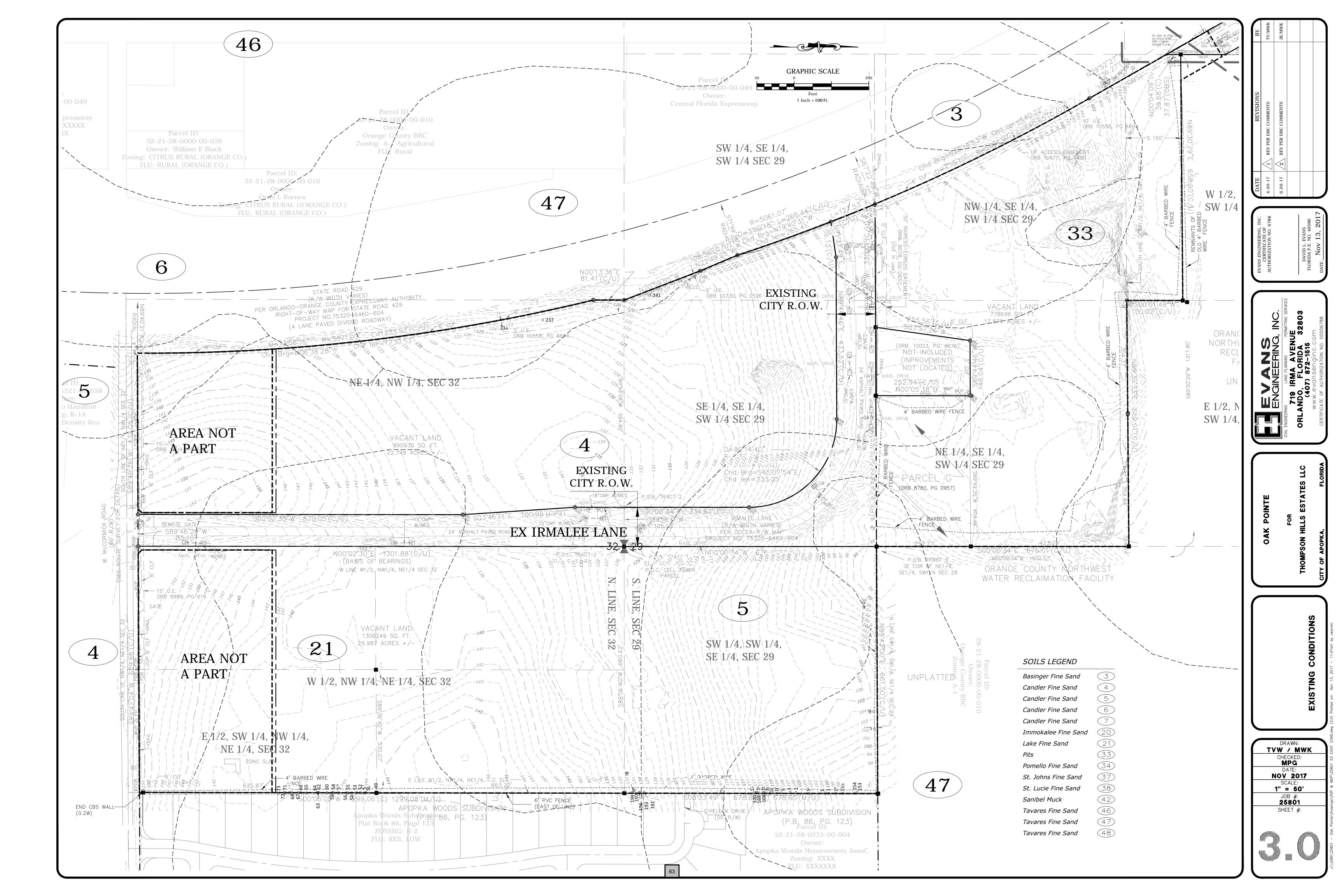
NOV 2017

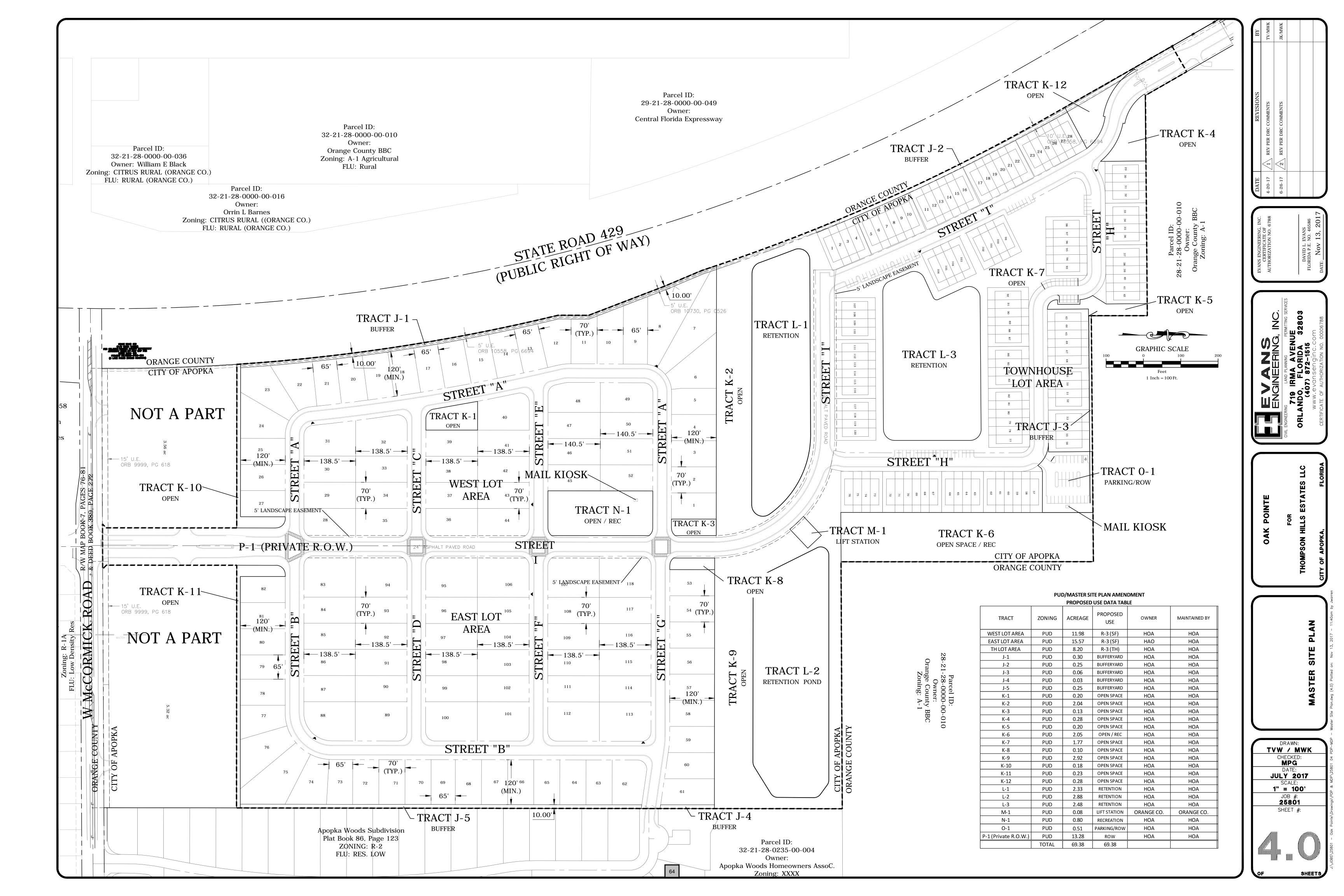
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1" = 100'

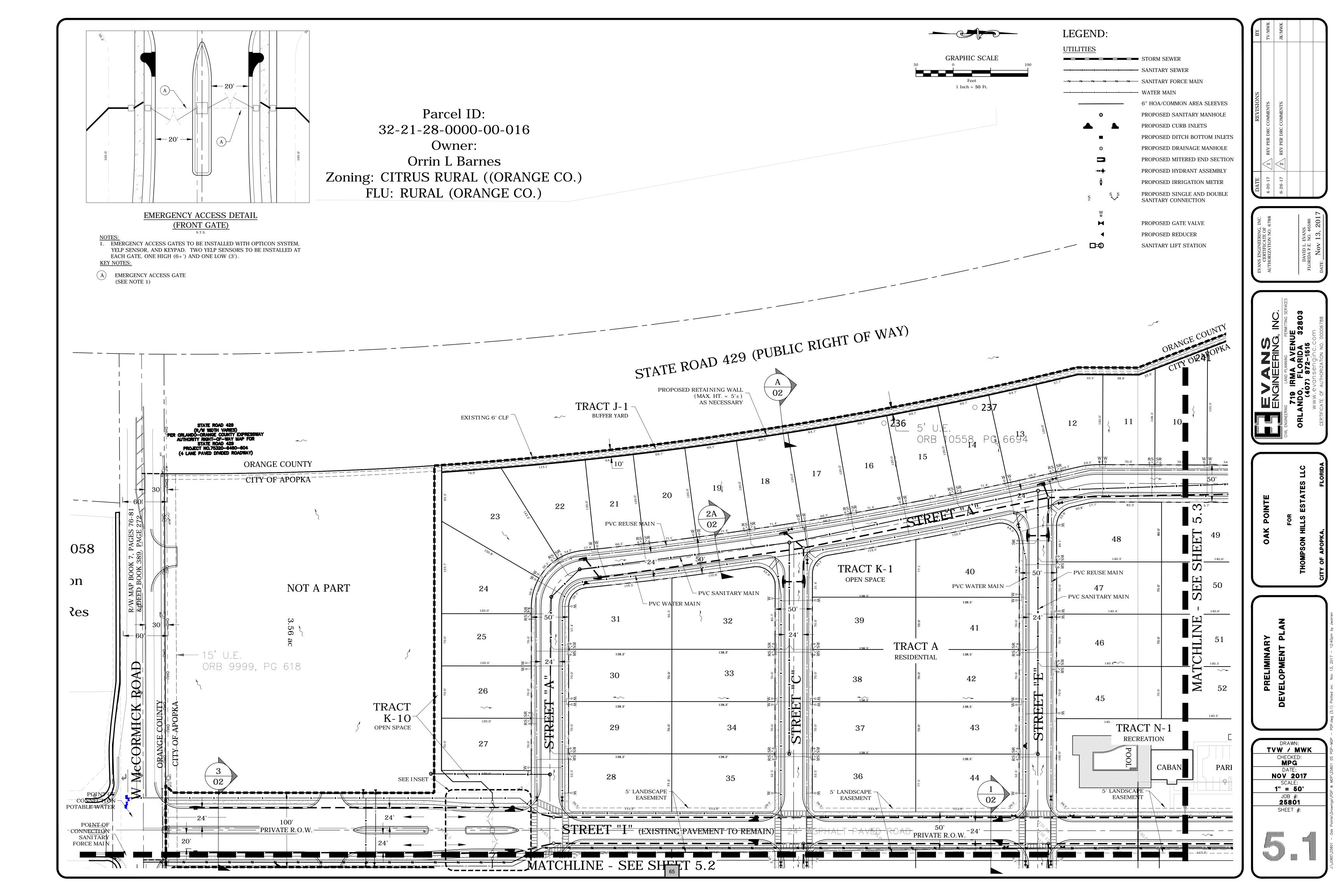
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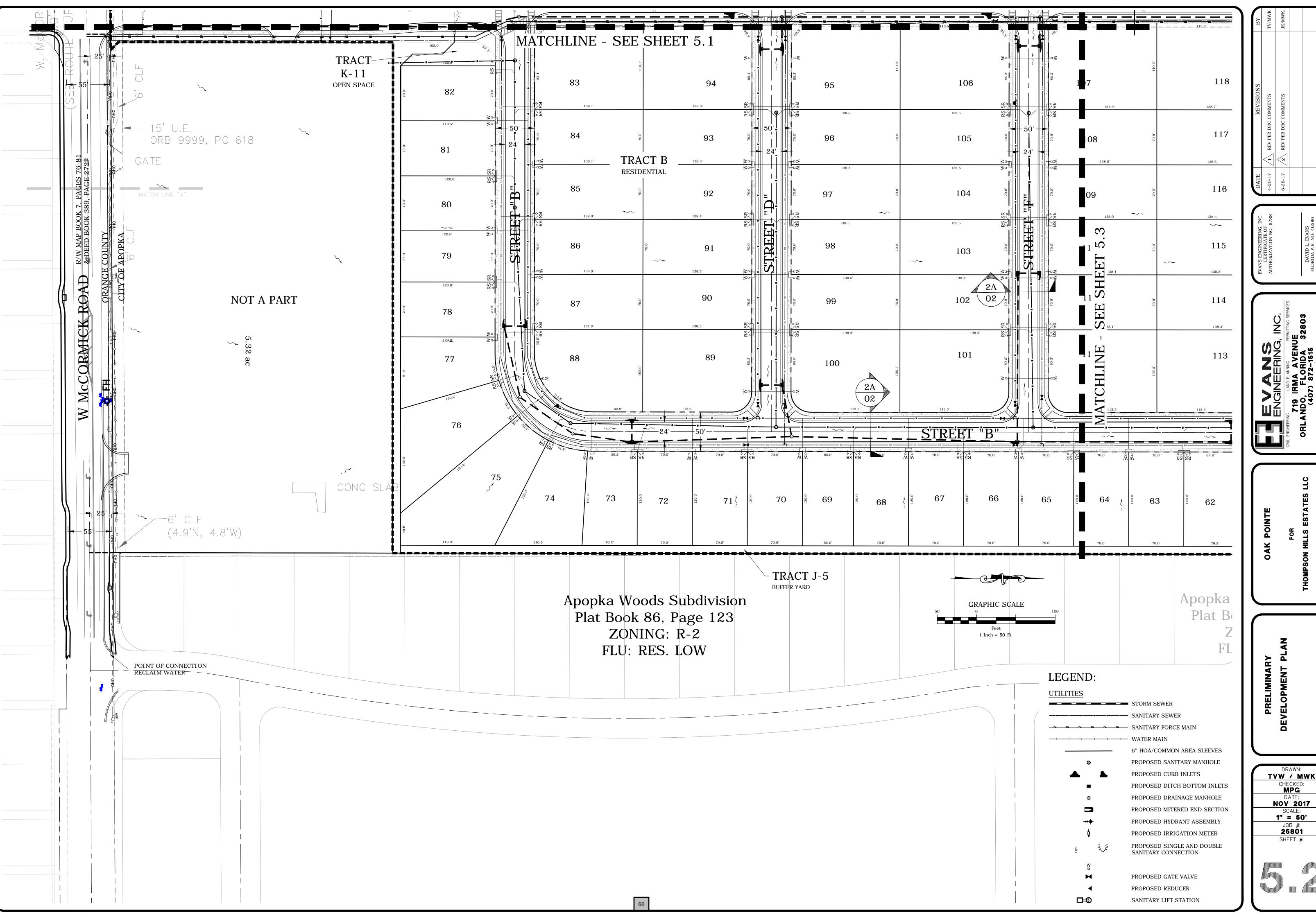
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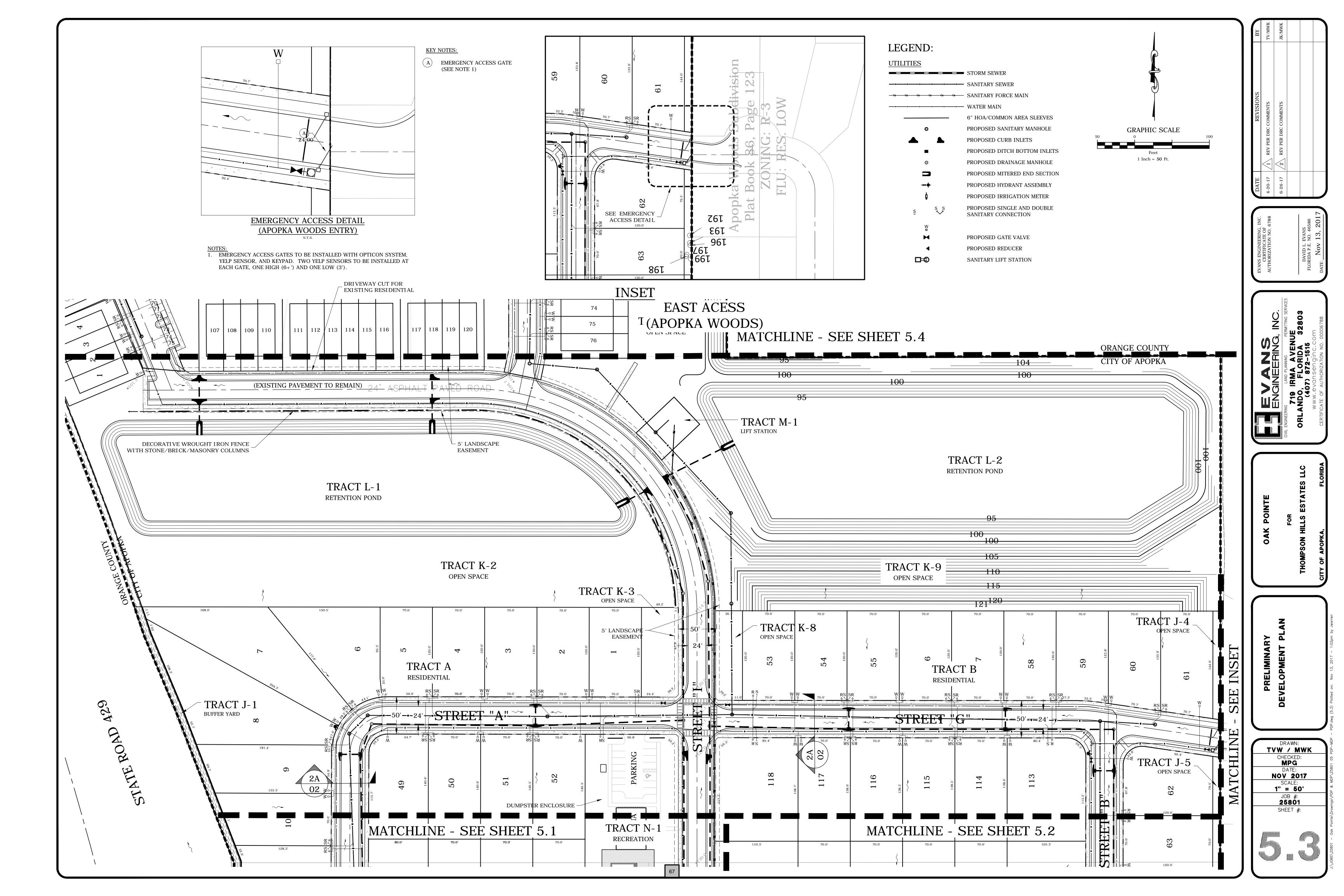


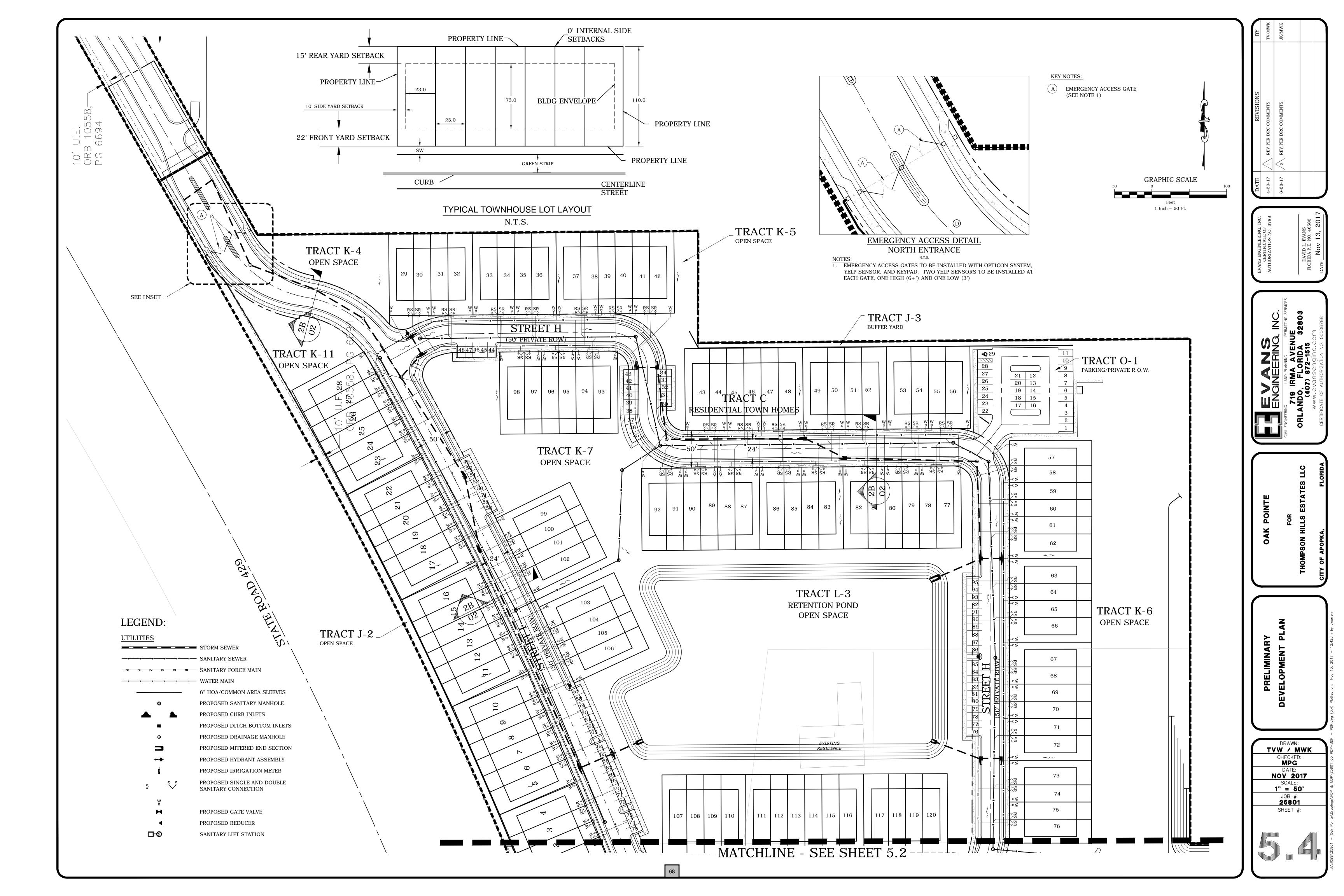


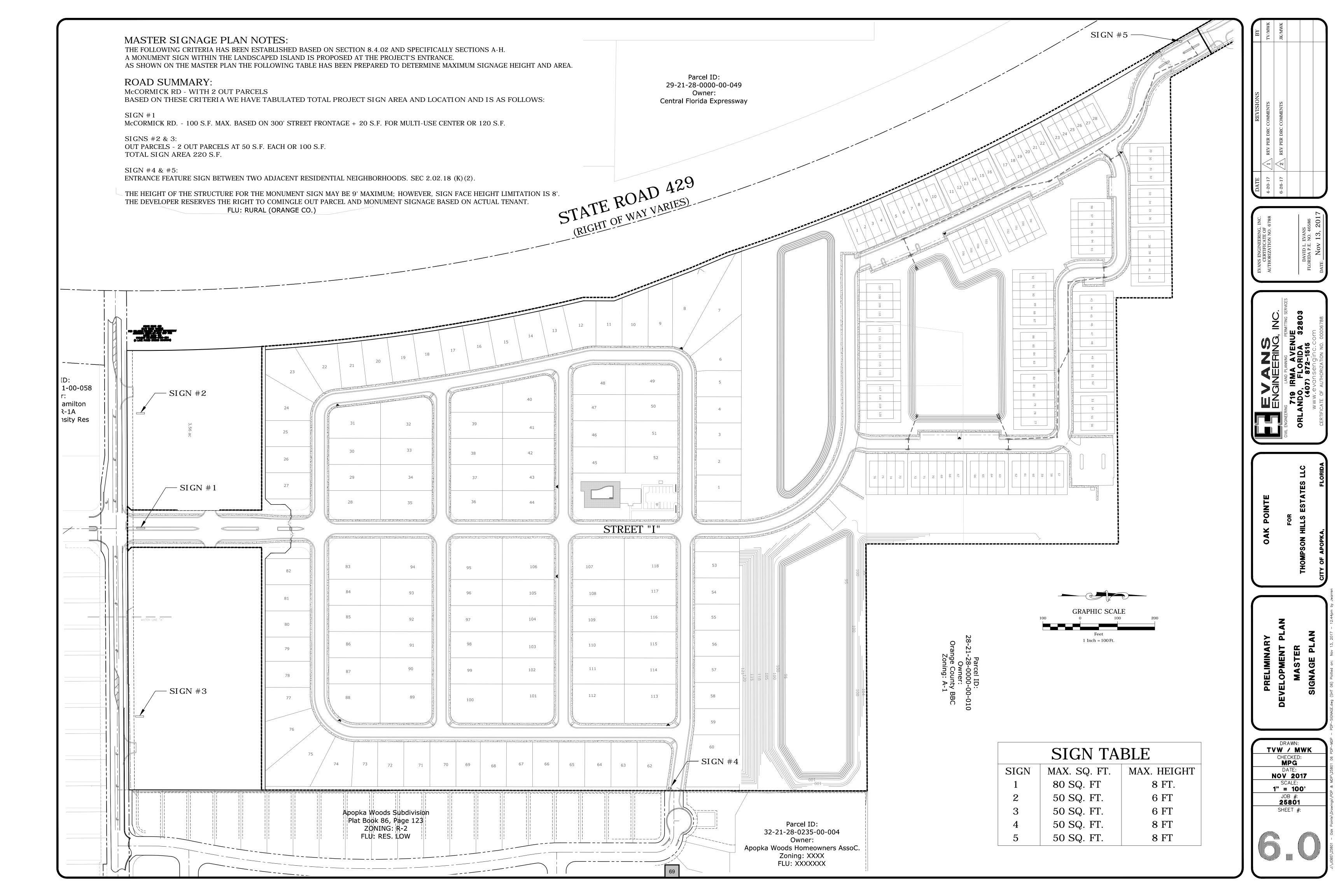


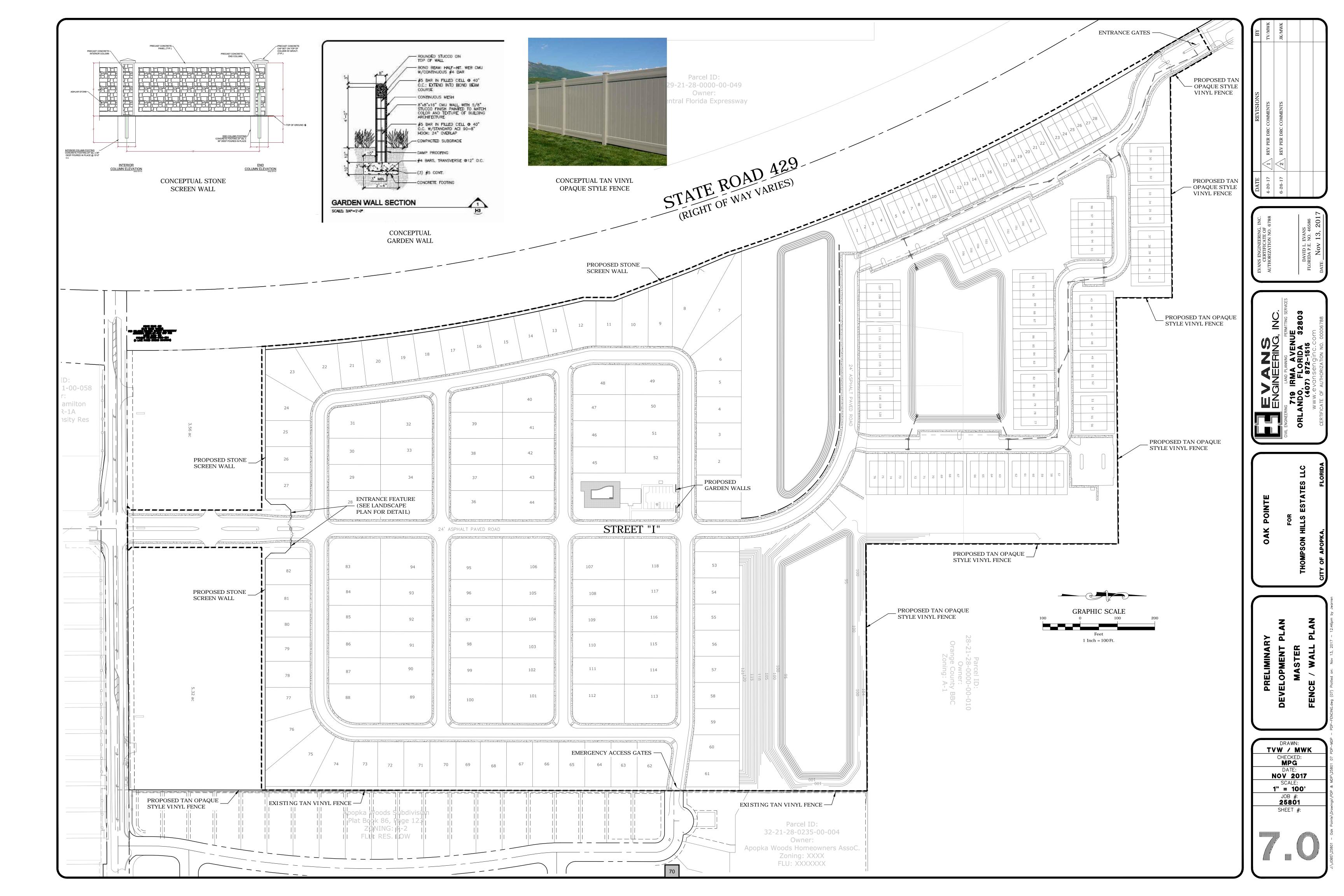


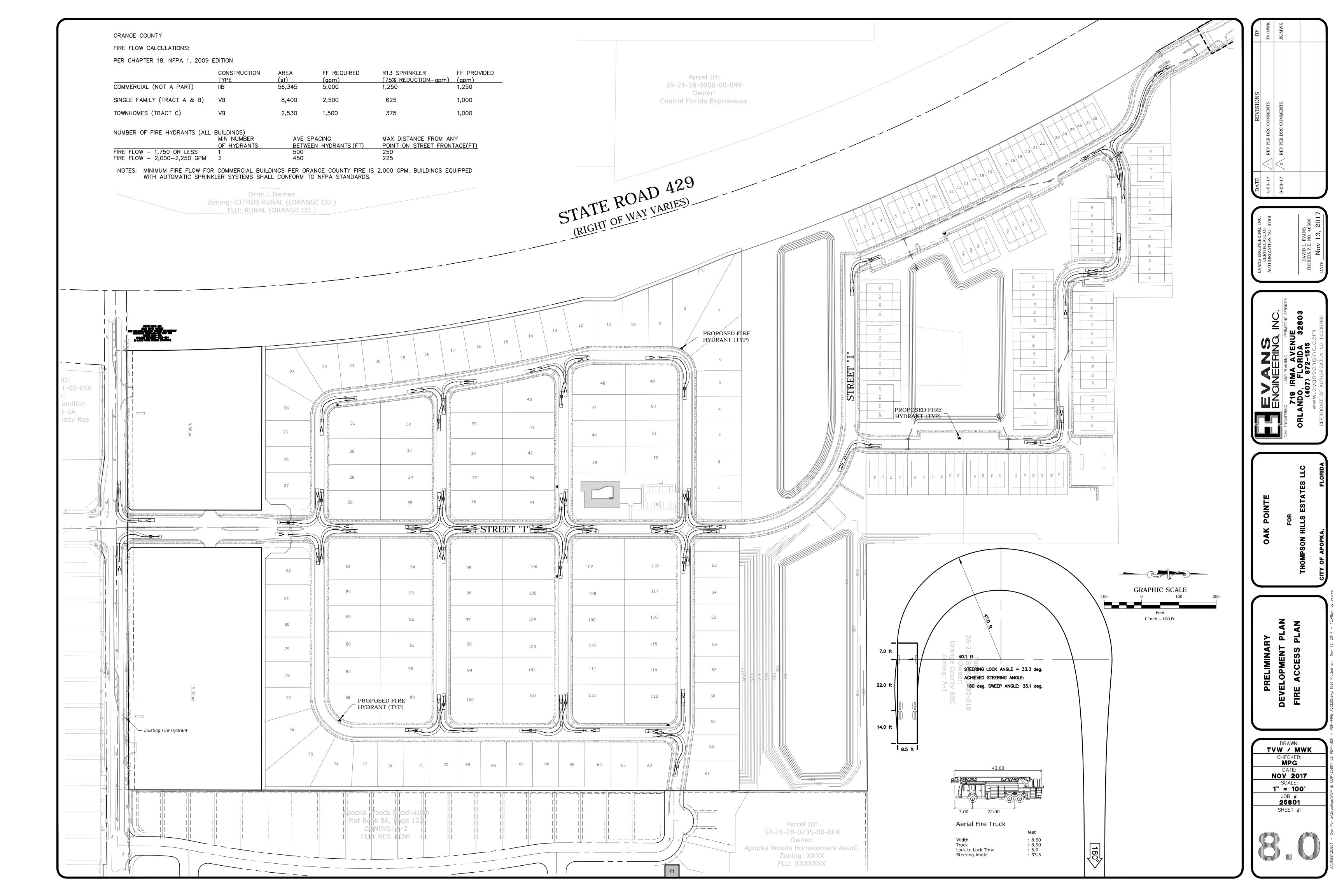
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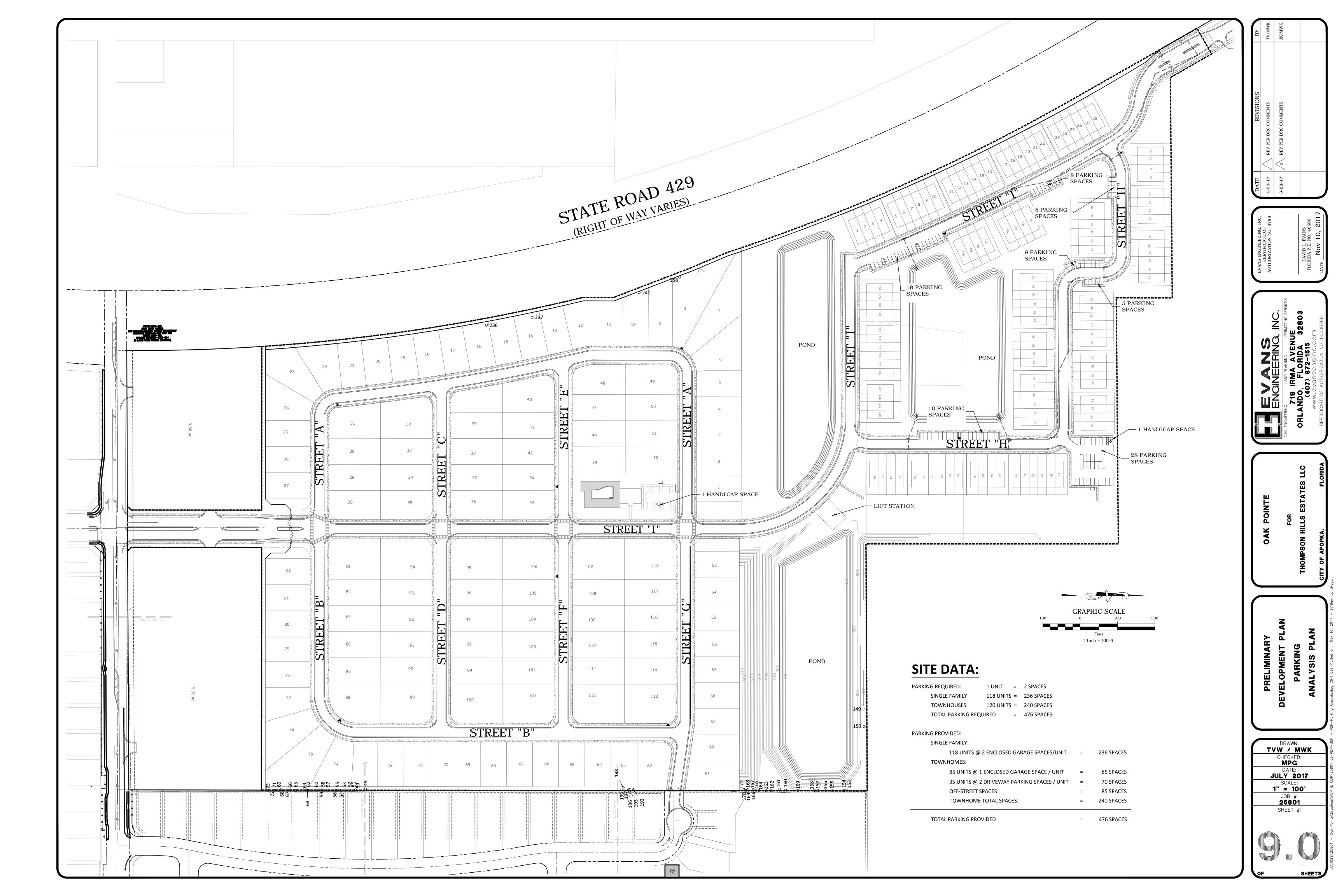


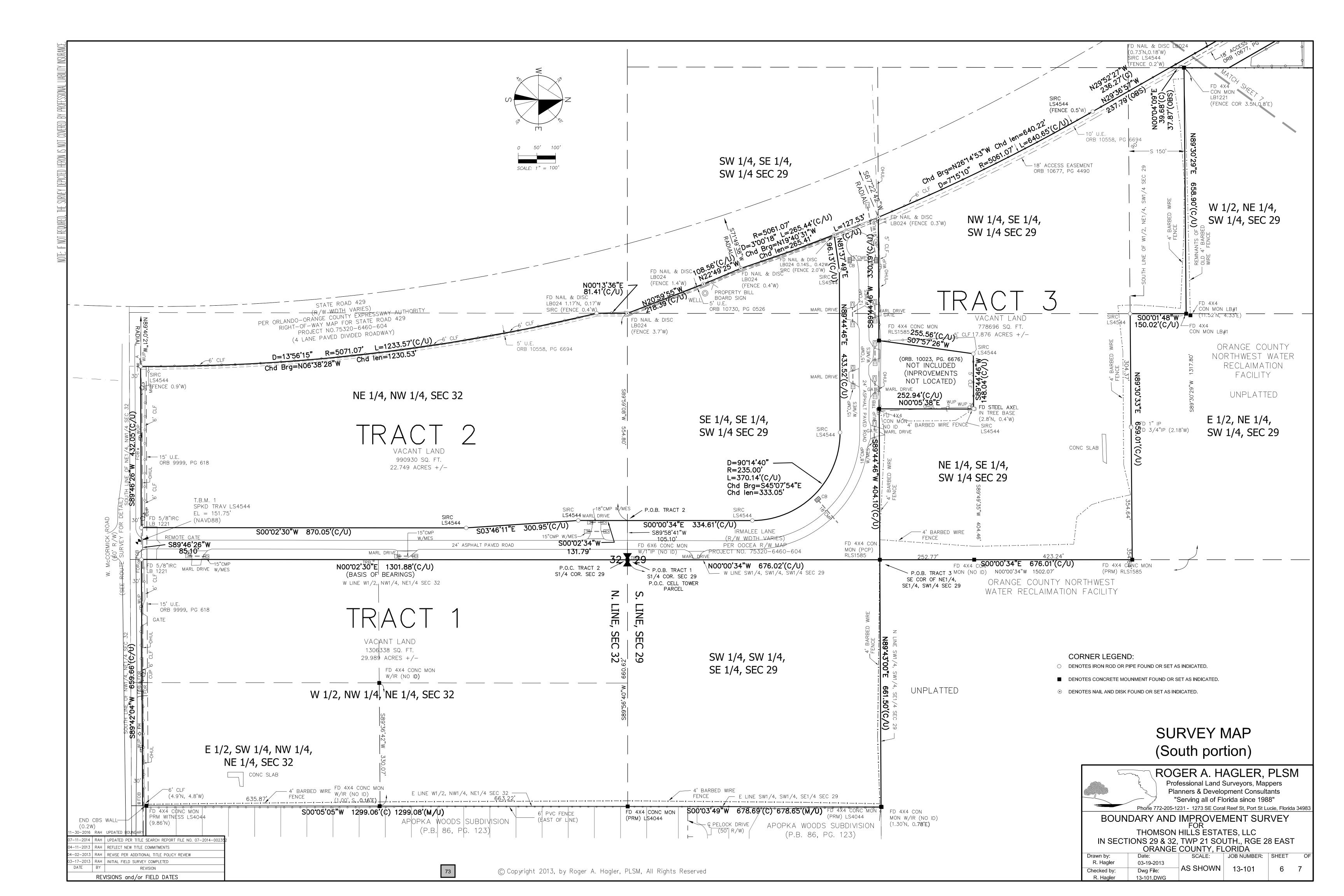


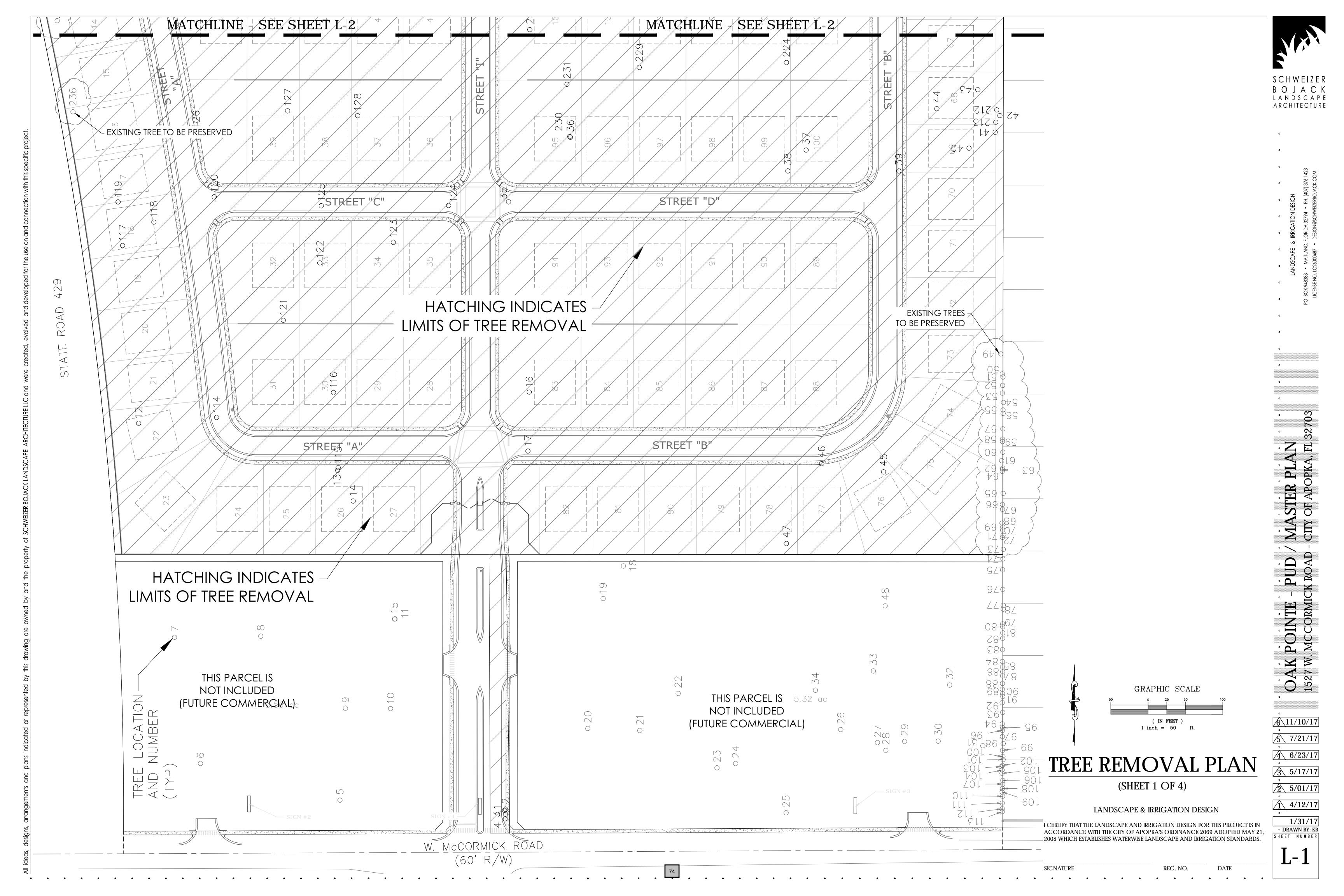


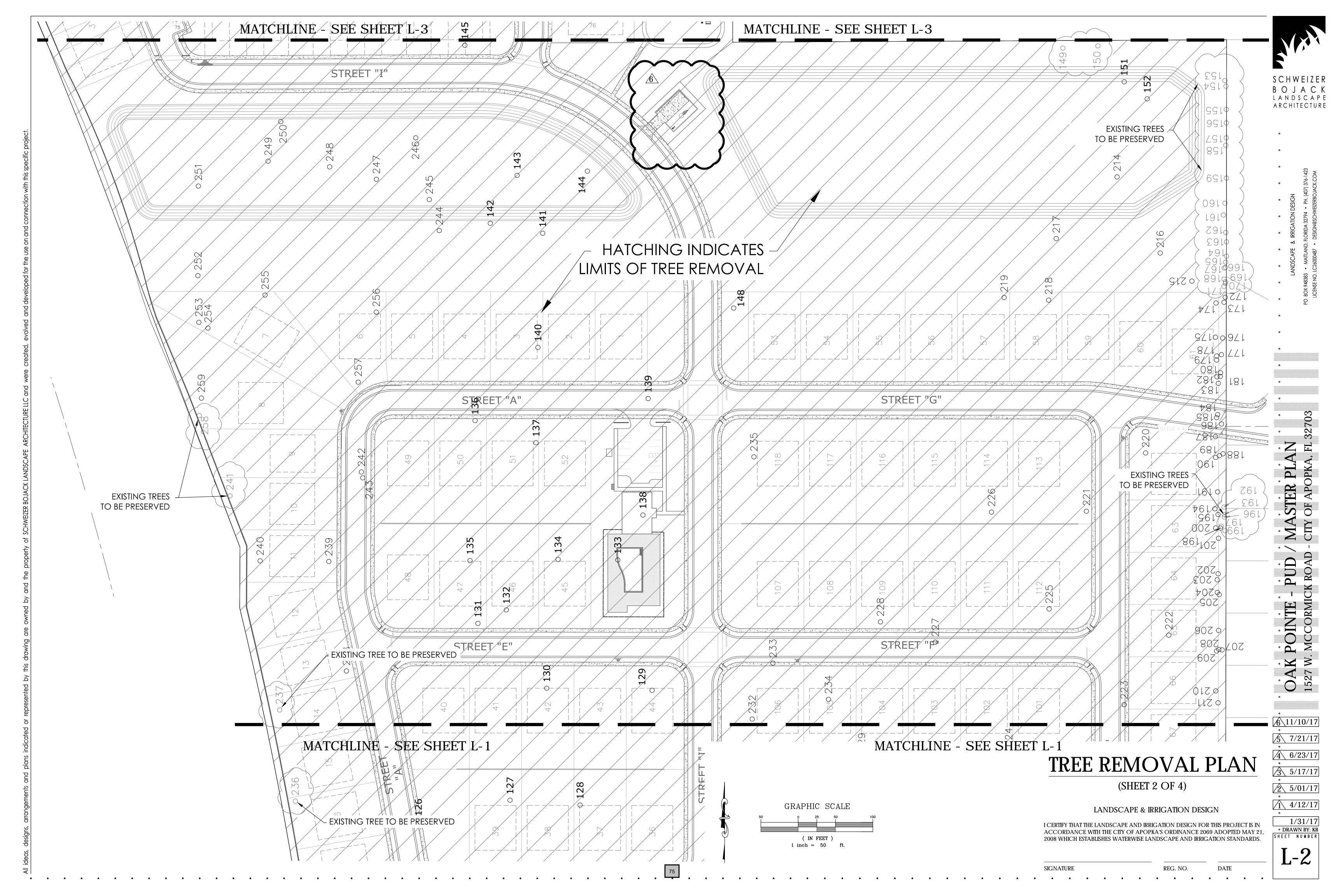


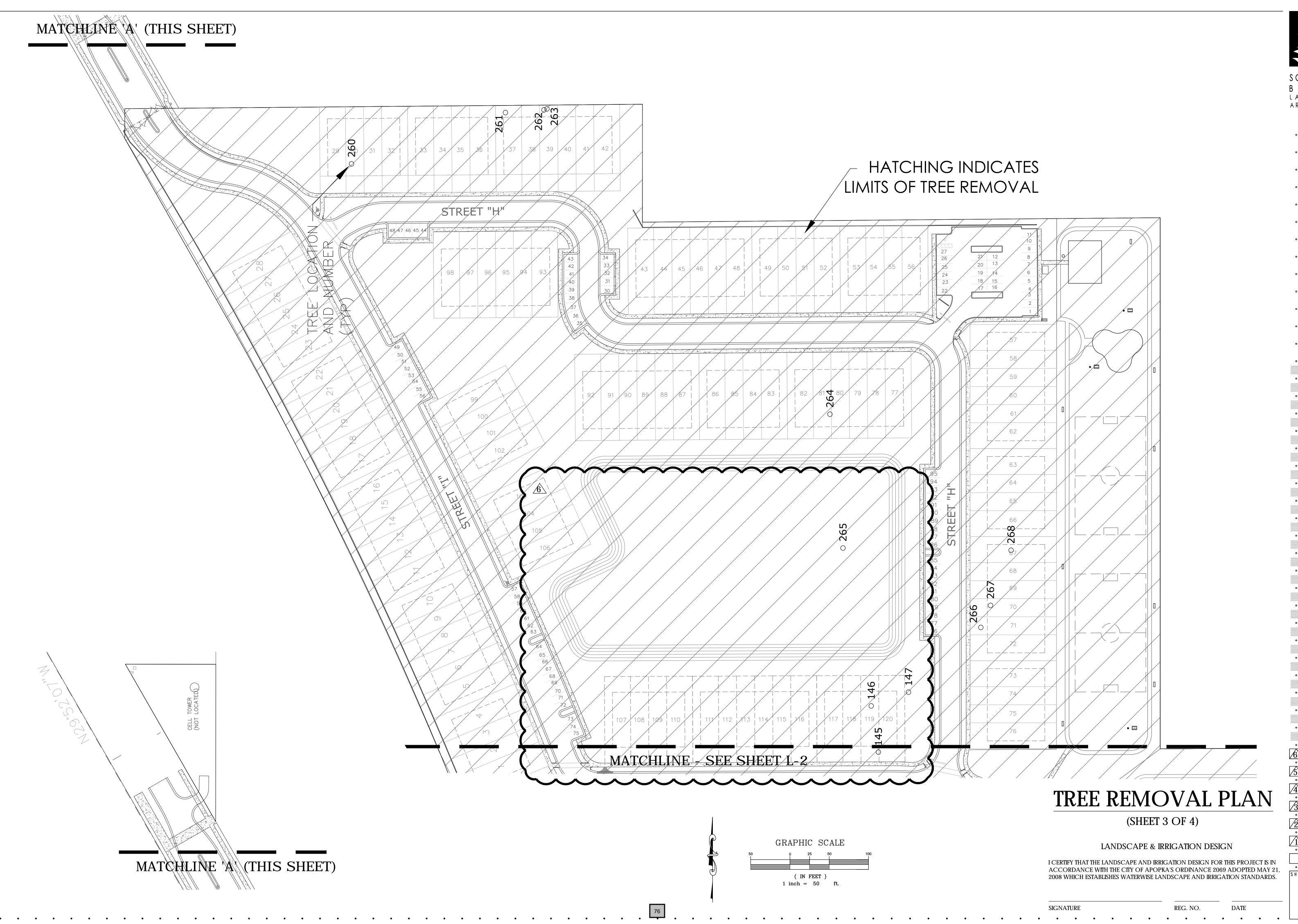












SCHWEIZER

BOJACK LANDSCAPE ARCHITECTURE

6 11/10/17

5 7/21/17 4 6/23/17

3 5/17/17

2 5/01/17 1 4/12/17

1/31/17 • DRAWN BY: KB SHEET NUMBER

L-3

DIAMITER

QUANTITY

TREE NO.	SPECIES	DIAMITER (INCHES)	QUANTITY
188	OAK	14	SINGLE
189	OAK	12	SINGLE
190	OAK	12	SINGLE
191	OAK	48	SINGLE
194	OAK	24	SINGLE
195	OAK	18	DOUBLE
198	OAK	12	SINGLE
200	CABBAGE PALM	16	SINGLE
201	OAK	14	SINGLE
202	CABBAGE PALM	14	SINGLE
203	OAK	8	SINGLE
204	OAK	8	DOUBLE
205	OAK	32	SINGLE
206	OAK	14	DOUBLE
207	OAK	20	SINGLE
208	OAK	14	SINGLE
209	OAK	10	SINGLE
210	OAK	28	SINGLE
211	OAK	6	3-4 CLUSTER
212	CABBAGE PALM	16	SINGLE
213	OAK	10	3-4 CLUSTER
214	OAK	32	SINGLE
215	OAK	40	SINGLE
216	OAK	36	SINGLE
217	OAK	24	TRIPLE
218	OAK	30	SINGLE
	OAK		
219		36	SINGLE
220	OAK	42	SINGLE
221	OAK	42	SINGLE
222	OAK	50	SINGLE
223	OAK	40	SINGLE
224	OAK	28	SINGLE
225	OAK	26	TRIPLE
226	OAK	42	SINGLE
227	OAK	40	DOUBLE
228	ОАК	38	SINGLE
229	OAK	24	TRIPLE
230	OAK	32	SINGLE
1		26	SINGLE
231	OAK		
232	OAK	22	SINGLE
233	OAK	44	SINGLE
234	OAK	46	SINGLE
235	OAK	30	SINGLE
238	OAK	26	SINGLE
239	OAK	26	SINGLE
240	OAK	18	TRIPLE
242	OAK	30	SINGLE
243	OAK	30	SINGLE
244	OAK	20	SINGLE
245	OAK	18	SINGLE
246	OAK	18	SINGLE
247	OAK	26	SINGLE
248	OAK	18	SINGLE
249	<del>- OAK</del>	24	SINGLE
250	OAK	20	SINGLE
<del>251</del>	OAK	32	SINGLE
252	OAK	34	SINGLE
253	OAK	40	SINGLE
254	OAK	42	SINGLE
255	OAK	34	SINGLE
256	OAK	68	SINGLE
257	OAK	28	SINGLE
258	OAK	18	SINGLE
259	OAK	20	SINGLE
260	<del>- OAK</del>	28	SINGLE
261	OAK	28	SINGLE
262	OAK	18	SINGLE
263	OAK	16	DOUBLE
264	OAK	52	SINGLE
265	OAK	42	SINGLE
266	OAK	26	SINGLE
267	OAK	26	SINGLE
268	OAK	34	SINGLE
269	OAK	10	SINGLE

### TREE REMOVAL & TREE PRESERVATION TABLE NOTES:

- 1. TREES #13 & #115 SIZES CHANGED DUE TO ERROR IN SIZE REPORTED ON TREE SURVEY FOUND DURING SITE ANALYSIS BY LANDSCAPE ARCHITECT(INDICATED BY \*).
- 2. TREES #145, #148, #222, #238, #249, #251, #253, #254 & #260 OMITTED FROM TREE MITIGATION CALCULATIONS DUE TO EXTREME POOR HEALTH AND/OR DISEASE (INDICATED BY STRIKETHROUGH)
- 3. TREES #5 THRU #11, #15, #18 THRU #34, #48, & #74 THRU #113 HAVE BEEN OMITTED FROM THE TREE REMOVAL & TREE PRESERVATION TABULATIONS AS THEY ARE OUTSIDE THE LIMITS OF THE PROJECT.
- 4. CABBAGE PALMS (#42, #197, #200, #202 & #212) HAVE BEEN OMITTED FROM THE TREE REMOVAL & TREE PRESERVATION TABULATIONS DUE TO "NON-PROTECTED" STATUS (INDICATED BY STRIKETHROUGH)

### TREE PRESERVATION

TREE	SPECIES	DIAMITER	QUANTITY
NO.		(INCHES)	
49	OAK	12	SINGLE
50	OAK	32	SINGLE
51	OAK	28	SINGLE
52	OAK	14	SINGLE
53	OAK	16	SINGLE
54	OAK	14	SINGLE
55	OAK	16	SINGLE
56	OAK	14	SINGLE
57	OAK	64	SINGLE
58	OAK	18	SINGLE
59	OAK	14	SINGLE
60	OAK	18	SINGLE
61	OAK	30	SINGLE
62	ОАК	8	SINGLE
63	ОАК	8	SINGLE
64	OAK	20	SINGLE
65	OAK	12	SINGLE
66	OAK	16	SINGLE
67	OAK	20	SINGLE
68	OAK	6	SINGLE
69	OAK	18	SINGLE
70	OAK	16	SINGLE
71	OAK	8	SINGLE
72	OAK	18	SINGLE
73	OAK	6	SINGLE
149	OAK	10	SINGLE
150	PINE	10	SINGLE
153	OAK	32	SINGLE
154	OAK	10	SINGLE
155	OAK	28	SINGLE
156	OAK	26	SINGLE
157	OAK	18	SINGLE
158	OAK	12	SINGLE
159	OAK	28	SINGLE
160	OAK	12	SINGLE
161	OAK	6	SINGLE
	OAK	26	
162			SINGLE
163	OAK	8	SINGLE
164	OAK	8	SINGLE
165	OAK	8	SINGLE
166	OAK	32	SINGLE
167	OAK	8	SINGLE
168	OAK	6	SINGLE
169	OAK	14	SINGLE
170	OAK	12	SINGLE
171	OAK	8	SINGLE
192	OAK	10	SINGLE
193	OAK	10	SINGLE
196	OAK	8	SINGLE
197	CABBAGE PALM	14	SINGLE
199	OAK	12	SINGLE
236	OAK	60	SINGLE
237	OAK	38	SINGLE
244	1 0 4 1/	20	CINICIE

20 SINGLE

### TREE REMOVAL DATA

TOTAL EXISTING TREES TO BE REMOVED: 160 TREES (4,024") SPECIMEN TREES (>24" DBH) REMOVED: 98 TREES (3,192") PROTECTED TREES (<24" DBH) REMOVED: 62 TREES (832") (NOTE: CABBAGE PALMS & TREES UNDER 6" DBH NOT INCLUDED)

### TREE PRESERVATION DATA

TOTAL EXISTING TREES TO BE PRESERVED: 53 TREES (926") SPECIMEN TREES (>24" DBH) PRESERVED: 12 TREES (424") PROTECTED TREES (<24" DBH) PRESERVED: 41 TREES (502") (NOTE: CABBAGE PALMS & TREES UNDER 6" DBH NOT INCLUDED)

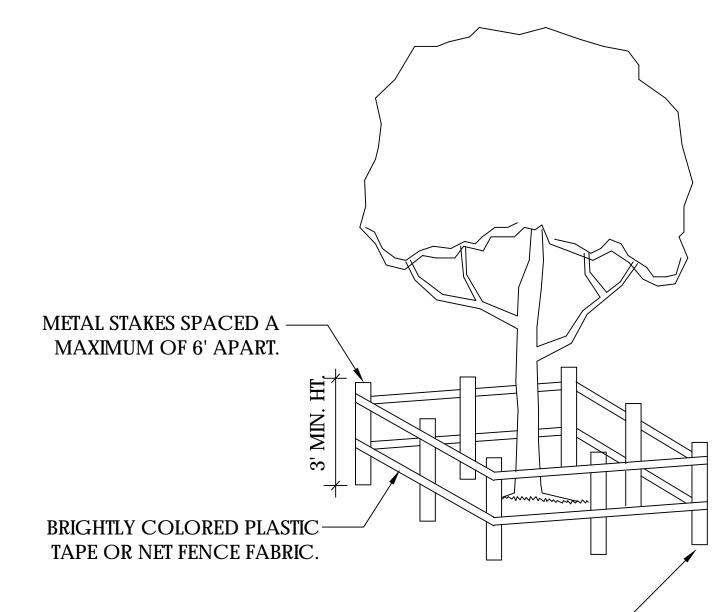
### TREE REQUIREMENT (MAX. TREE STOCK CALCULATION)

TOTAL SITE AREA: 3,022,193 SQ. FT. (69.38 ACRES) TREES REQUIRED: 378 TREES (1 TREE/8,000 SQ. FT.) TREES PROVIDED: 880 TREES (INCLUDES BUFFER TREES)

### TREE REPLACEMENT (PROPOSED TREES)

9 LIVE OAKS x 3.5" DBH = 31.5" 858" 286 LIVE OAKS x 3" DBH = 7 MAGNOLIAS x 3" DBH = 21"  $30 \text{ RED MAPLES } \times 3^{"} \text{ DBH} =$ 90" 64 BALD CYPRESS x 3" DBH = 192" 296 LOT CANOPY TREES x 3" DBH = 888" 64 RED CEDARS x 3" DBH = 192" 48 YAUPON HOLLIES x 3" DBH = 144" 76 CRAPE MYRTLES x 3" DBH =228" 880 PROPOSED TREES = 2,644.5"

### TREE PROTECTION DETAIL



PROTECTIVE BARRIERS SHALL BE PLACED AT POINTS NOT CLOSER THAN SIX (6) FEET FROM THE BASE OF THE TREE OR AT THE RADIUS OF THE DRIP-LINE OF THE PROTECTED TREE OR STAND OF TREES, WHICHEVER IS GREATER. EACH SECTION OF THE BARRIER SHALL BE CLEARLY VISIBLE (FLAGGED WITH BRIGHTLY COLORED PLASTIC TAPES OR OTHER MARKERS). NO ATTACHMENTS OR WIRES OTHER THAN THOSE OF A PROTECTIVE OR NON-DAMAGING NATURE SHALL BE ATTACHED TO ANY TREE.

### TREE PROTECTION NOTES

All protected tree shall have the trunk and roots protected by protective barriers erected prior to development activity in accordance with the following:

- 1. Protective barriers constructed of wood rails, chain link fabric or orange plastic safety netting shall be placed around the tree or trees to form a continuous barricade at least four feet high. Ideally such barriers will form a protection zone described by the drip line.
- 2. Protective barriers shall remain in place until landscape operations begin or until construction in the immediate area has been completed.
- 3. Trenching for underground utilities shall be prohibited inside the protective barriers. If underground utilities must be routed through the protected area, tunneling shall be required. All landscape preparation in these areas shall be conducted by hand, except for mechanical tunneling as needed.
- 4. No vehicles, equipment, materials or fill shall be placed or stored within the protected area.

### TREE REMOVAL PLAN

(SHEET 4 OF 4)

LANDSCAPE & IRRIGATION DESIGN

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.

DATE SIGNATURE

SCHWEIZER

BOJACK LANDSCAPE ARCHITECTURE

OAK POINTE - P 1527 W. MCCORMICK F

6\11/10/17 5 7/21/17

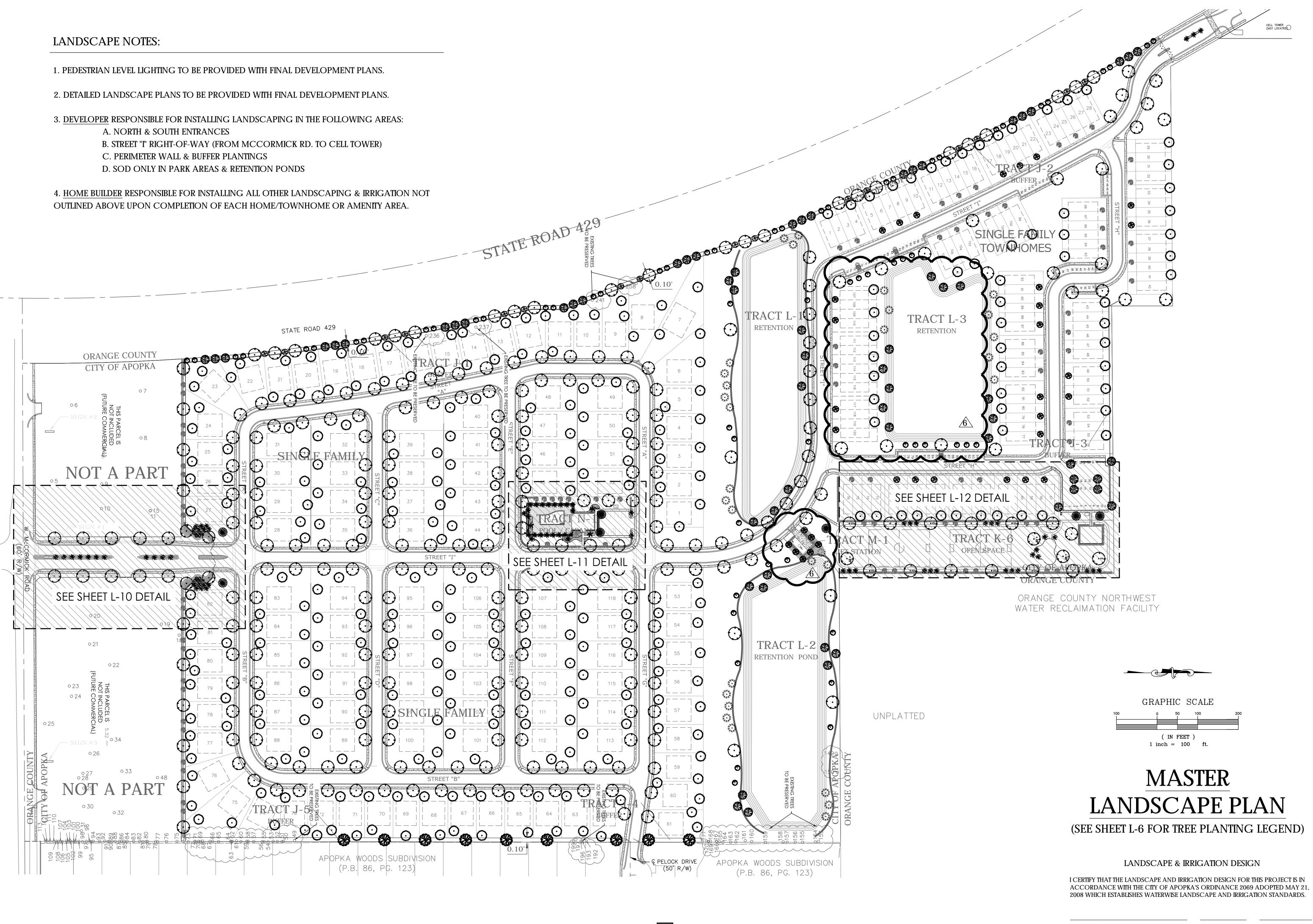
4 6/23/17 3 5/17/17

2 5/01/17

1 4/12/171/31/17

• DRAWN BY: KB SHEET NUMBER L-4





S C H W E I Z E R B O J A C K

SCHWEIZER
BOJACK
LANDSCAPE
ARCHITECTURE

LANDSCAPE & IRRIGATION DESIGN
PO BOX 948383 • MAITLAND, FLORIDA 32794 • PH. (407) :
LICENSE NO. LC26000487 • DESIGN@SCHWEIZERBOJAC

K POINTE - PUD / MASTER PLAN
W. MCCORMICK ROAD - CITY OF APOPKA, FI 32

. 6 11/10/17 . 5 7/21/17

6/23/17 5/3\ 5/17/17

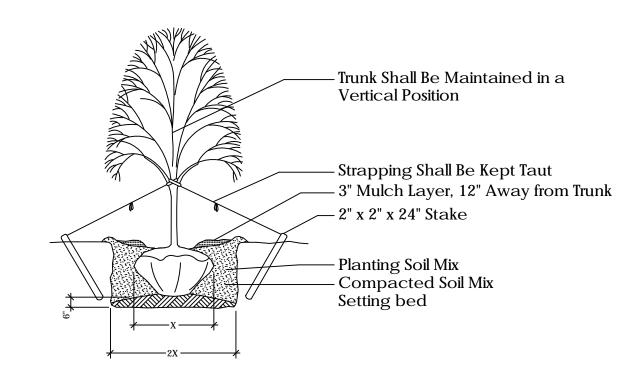
5/01/17 4/12/17

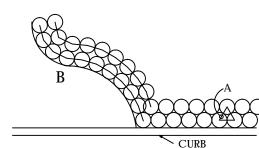
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SHEET NUMBER

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PROTECTIVE BARRIERS SHALL BE PLACED AT POINTS NOT CLOSER THAN SIX (6) FEET FROM THE BASE OF THE TREE OR AT THE RADIUS OF THE DRIP-LINE OF THE PROTECTED TREE OR STAND OF TREES, WHICHEVER IS GREATER. EACH SECTION OF THE BARRIER SHALL BE CLEARLY VISIBLE (FLAGGED WITH BRIGHTLY COLORED PLASTIC TAPES OR OTHER MARKERS). NO ATTACHMENTS OR WIRES OTHER THAN THOSE OF A PROTECTIVE OR NON-DAMAGING NATURE SHALL BE ATTACHED TO ANY TREE.

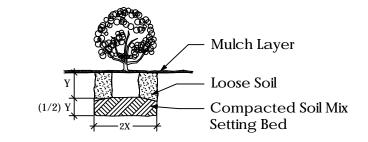
### PLANTING DETAILS

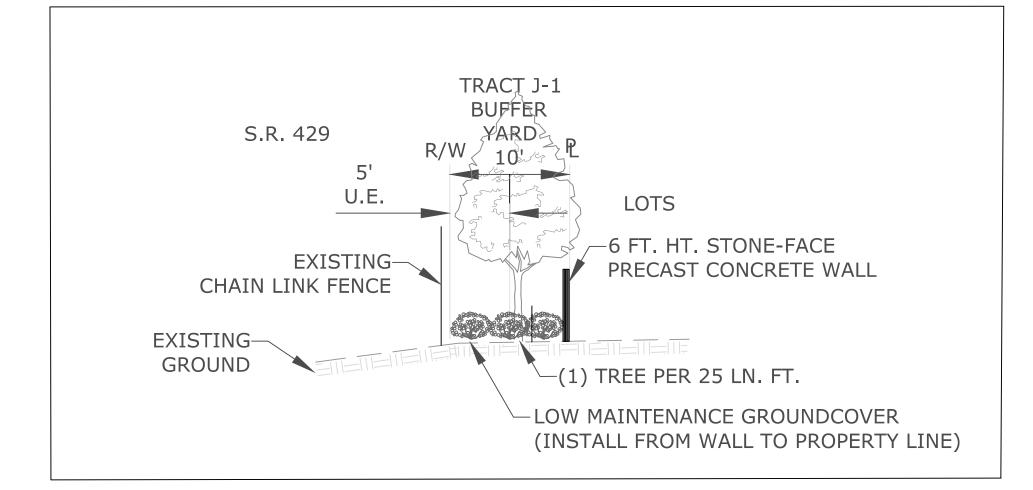




A Shrubs & groundcovers adjacent to straight edges g\U``VY`lf\Ub\[ i \Uf`` gdUWYX`\b fck gdUfU``Y``lt \lambda Y` straight edge.

B Shrubs & groundcovers adjacent to curved edges shall be planted in rows parallel to the curved edge.





### TYPICAL WESTERN LANDSCAPE BUFFER SECTION (SCALE: N.T.S.)

### LANDSCAPE GENERAL NOTES

- 1. The Landscape Contractor shall insure that this work does not interrupt established or projected drainage patterns. The Landscape Contractor shall insure adequate vertical drainage in all plant beds and planters. Vertical drilling through any compacted fill to native soil shall be accomplished to insure drainage.
- 2. The Landscape Contractor shall be responsible for all materials and all work as called for on the landscape plans and in the landscape specifications. The list of plant quantities accompanying the plans shall be sued as a quide only. Contractor shall verify all quantities and report any discrepancies at the time of bidding.
- 3. All plant materials shall be graded Florida No. 1 or better, as outlined under Grades and Standards for Nursery Plants, Division of Plant Industry, State of Florida, unless otherwise noted.
- 4. All plant beds and tree rings shall be top dressed with a 3" minimum depth of pine bark nuggets.
- 5. The Landscape Contractor shall be wholly responsible for stability and plumb condition of all trees and shrubs. Staking of trees or shrubs, if desired or requested by the Landscape Architect or owner, shall be done utilizing a method agreed upon by the Landscape Architect.
- 6. No fill material or use of heavy equipment around existing trees is allowed. Existing trees are to be protected by a wood barricade erected in compliance with local codes.
- 7. The Landscape Contractor is responsible for testing project soils. The Landscape Contractor is to provide a certified soils report to the Owner and Landscape Architect. The Landscape Contractor shall verify that the soils on site are acceptable for proper growth of the proposed plant material. Should the Landscape Contractor find poor soil conditions, the Owner and Landscape Architect must be consulted prior to planting.
- 8. All grades, dimensions and existing conditions shall be verified by the Contractor on site before construction begins. Any discrepancies shall be brought to the attention of the Landscape Architect.
- 9. All proposed trees to be installed either entirely in or entirely out of planting beds. Planting bedlines are not to be obstructed; smooth and flowing.
- 10. The Landscape Contractor shall review architectural/engineering plans to become thoroughly familiar with surface and subsurface utilities.
- 11. The Landscape Contractor shall coordinate with the lighting and irrigation contractors regarding the timing of the installation of plant material.
- 12. Every possible safeguard shall be taken to protect building surfaces, equipment and furnishings, Landscape Contractor shall be responsible for any damage or injury to person or property which may occur as a result of his negligence in the execution of work.

### IRRIGATION NOTE

Irrigation Plan will be provided at time of the Final Development Plan.

### LANDSCAPE DEVELOPMENT NOTES:

- 1. PEDESTRIAN LEVEL LIGHTING TO BE PROVIDED WITH FINAL DEVELOPMENT PLANS.
- 2. DETAILED LANDSCAPE PLANS WITH PLANTING SCHEDULE TO BE PROVIDED WITH FINAL DEVELOPMENT PLANS.
- 3. DEVELOPER RESPONSIBLE FOR INSTALLING LANDSCAPING IN THE FOLLOWING AREAS:
  - A. NORTH & SOUTH ENTRANCES
  - B. STREET "I" RIGHT-OF-WAY
  - (FROM MCCORMICK RD. TO CELL TOWER)
  - C. PERIMETER WALL & BUFFER PLANTINGS
  - D. SOD ONLY IN PARK AREAS & RETENTION PONDS
- 4. HOME BUILDER RESPONSIBLE FOR INSTALLING ALL OTHER LANDSCAPING & IRRIGATION NOT OUTLINED ABOVE UPON COMPLETION OF EACH HOME/TOWNHOME OR AMENITY AREA.

### TREE PLANTING LEGEND

	SYMBOL	KEY	QNTY.	COMMON/BOTANICAL NAME	SPECIFICATIONS/DESCRIPTION
<b>(</b>					
		QV1	9	Live Oak Quercus virginiana	3½" DBH, 12' - 14' Ht., 100 Gal. or B&B
<b>\</b>	$\odot$	QV2	286	Live Oak Quercus virginiana	3" DBH, 10' - 12' Ht., 100 Gal. or B&B
>		MG	7	Southern Magnolia Magnolia grandiflora	3" DBH, 10' - 12' Ht., 100 Gal. or B&B
>	3000	AR	30	Red Maple Acer rubrum	3" DBH, 10' - 12' Ht., 100 Gal. or B&B
>	**	TD	64	Bald Cypress Taxodium distichum	3" DBH, 10' - 12' Ht., 100 Gal. or B&B
>	0	LOT	296	Canopy Tree (Species to be Selected by Lot Own	3" DBH, 10' - 12' Ht., 100 Gal. or B&B ner: Live Oak, Magnolia, Red Maple or Elm Tree)
>	•	JV	64	Red Cedar Juniperus virginiana	3" DBH, 10' - 12' Ht., 100 Gal. or B&B
>	<b>⊗</b>	IVN	48	Upright Yaupon Holly Lagerstroemia indica	3" Total DBH, Multi Trunk, 8'- 10' Ht., 100 Gal. or B&B
	<b>e</b>	LI	76	Crape Myrtle Lagerstroemia indica	3" Total DBH, Multi Trunk, 8'- 10' Ht., 100 Gal. or B&B

NOTE: Additional Details on Palms, Ornamentals, Shrubs & Groundcovers to be included on Final Development Plans

### PROPOSED TREE PLANTING INCHES

I NOI OSED INEE I LANIENG	I NOI OBED INEE I LAMIENG ENCHES				
9 LIVE OAKS x 3.5" DBH =	31.5"				
286 LIVE OAKS $x$ 3" DBH =	858"				
7  MAGNOLIAS  x 3"  DBH =	21"				
30 RED MAPLES x 3" DBH =	90"				
64 BALD CYPRESS x 3" DBH =	192"				
296 LOT CANOPY TREES x 3" DBH =	888"				
64 RED CEDARS $x$ 3" DBH =	192"				
48 YAUPON HOLLIES x 3" DBH =	144"				
76CRAPE MYRTLES x 3" DBH =	228"				
880 PROPOSED TREES =	2,644.5"				

### LANDSCAPE NOTES & DETAILS

LANDSCAPE & IRRIGATION DESIGN

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.

423 ° °

SCHWEIZER

BOJACK

LANDSCAPE

ARCHITECTURE

LANDSCAPE & IRRIGATION DESIGN
48383 • MAITLAND, FLORIDA 32794 • PH. (407) 376-14

PO BOX 948383 • MAIILAND,

PUD / MASTER PLAN ROAD - CITY OF APOPKA, FL

JAK POINTE - F 527 W. MCCORMICK

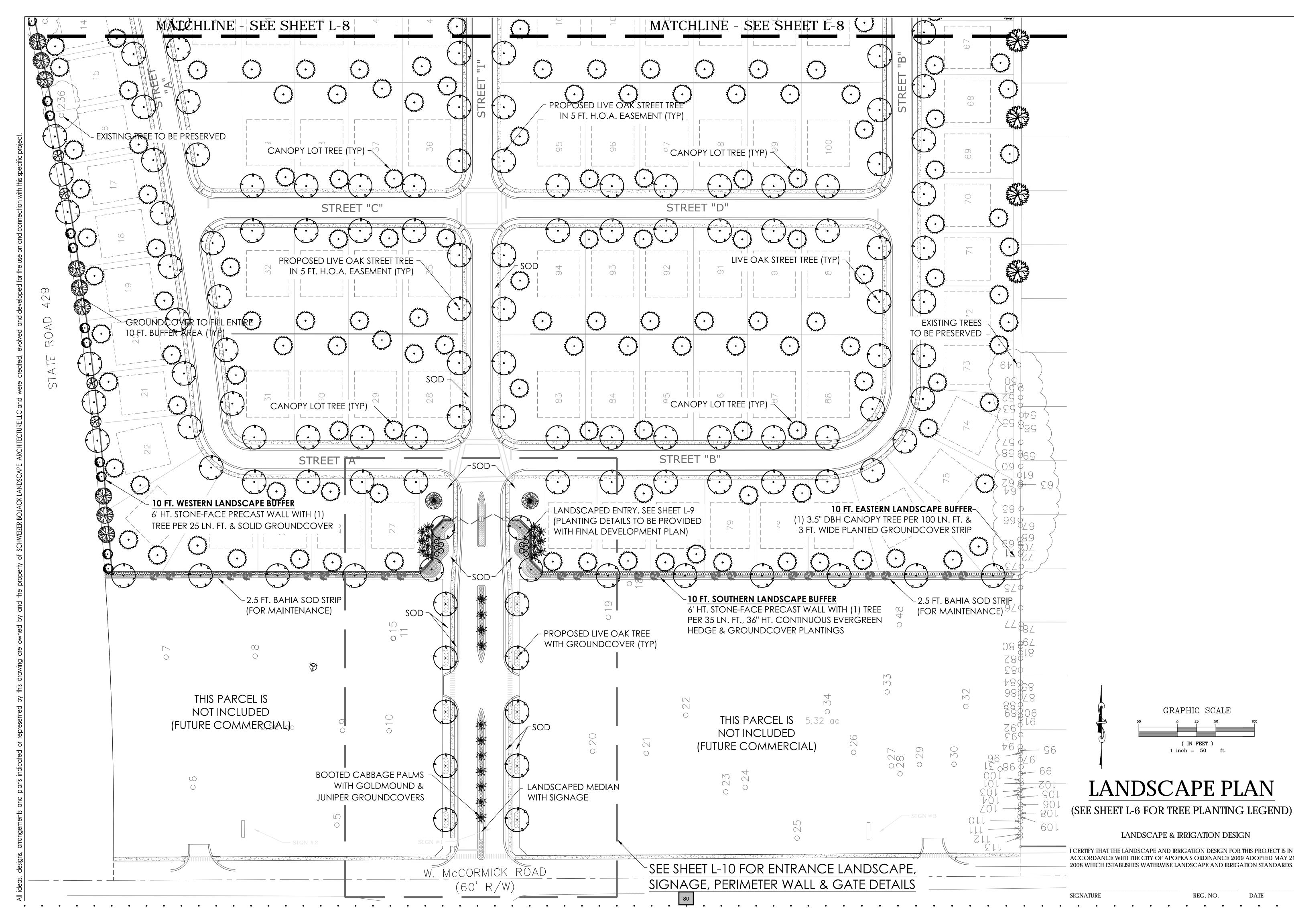
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SCHWEIZER
BOJACK
LANDSCAPE
ARCHITECTURE

LANDSCAPE & IRRIGATION DESIGN
PO BOX 948383 • MAITLAND, FLORIDA 32794 • PH. (407) 376-1423

OAK POINTE - PUD / MASTER PLAN 1527 W. MCCORMICK ROAD - CITY OF APOPKA. FL 32703

6 11/10/17 · 7/21/17

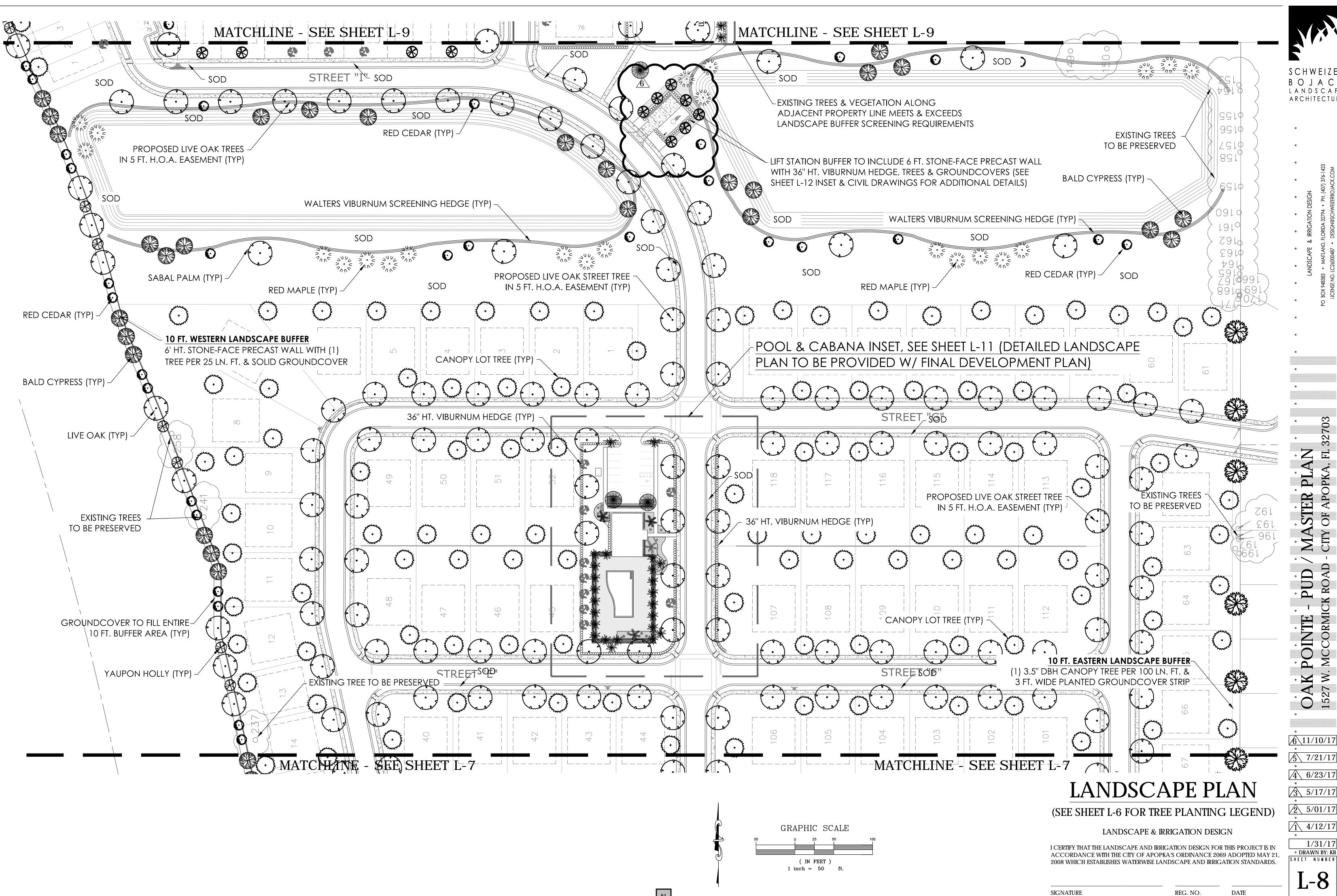
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SCHWEIZER BOJACK LANDSCAPE ARCHITECTURE

6\11/10/17

*√*5 √ 7/21/17

4 6/23/17

3 5/17/17

2 5/01/17

1/31/17 DRAWN BY: KB

L-8

ENTRY GATE WITH SIGNAGE (TYP)

SAND CORDGRASS (TYP)

PARSON'S JUNIPER (TYP)

BOOTED CABBAGE PALM, MATCHING HEIGHTS (TYP)

DRIFT ROSES

W. McCORMICK ROAD

(60' R/W)

GOLDMOUND (TYP)

BOOTED CABBAGE PALMS,-

STAGGERED HEIGHTS (TYP)

36" HT. PODOCARPUS (TYP)

36" HT. VIBURNUM (TYP)-

MUHLY GRASS (TYP)

PROPOSED LIVE OAK TREE WITH -

VARIEGATED SCHEFFLERA (TYP)

THIS PARCEL IS

**NOT INCLUDED** 

(FUTURE COMMERCIAL)

- MAGNOLIA TREE (TYP)

GOLDMOUND (TYP)

OAK LEAF HOLLY (TYP)

ASIATIC JASMINE (TYP)

LIVE OAK STREET TREE (TYP) -

- LIGHT FIXTURES TO BE INSTALLED ON BOTH

- LOT CANOPY TREE (TYP)

- CRAPE MYRTLE (TYP)

APPEARANCE (TYP)

6 FT. PRECAST CONCRETE

WALL WITH ASHLAR STONE

SIDES OF ALL ENTRY COLUMNS (TYP)

- PROPOSED LIVE OAK TREE WITH

VARIEGATED SCHEFFLERA (TYP)

THIS PARCEL IS

NOT INCLUDED

(FUTURE COMMERCIAL)

GRAPHIC SCALE

1 inch = 30 ft.

- PROPOSED SIGN

PEDESTRIAN GATE (TYP)

6\11/10/17

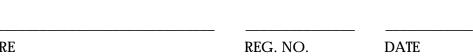
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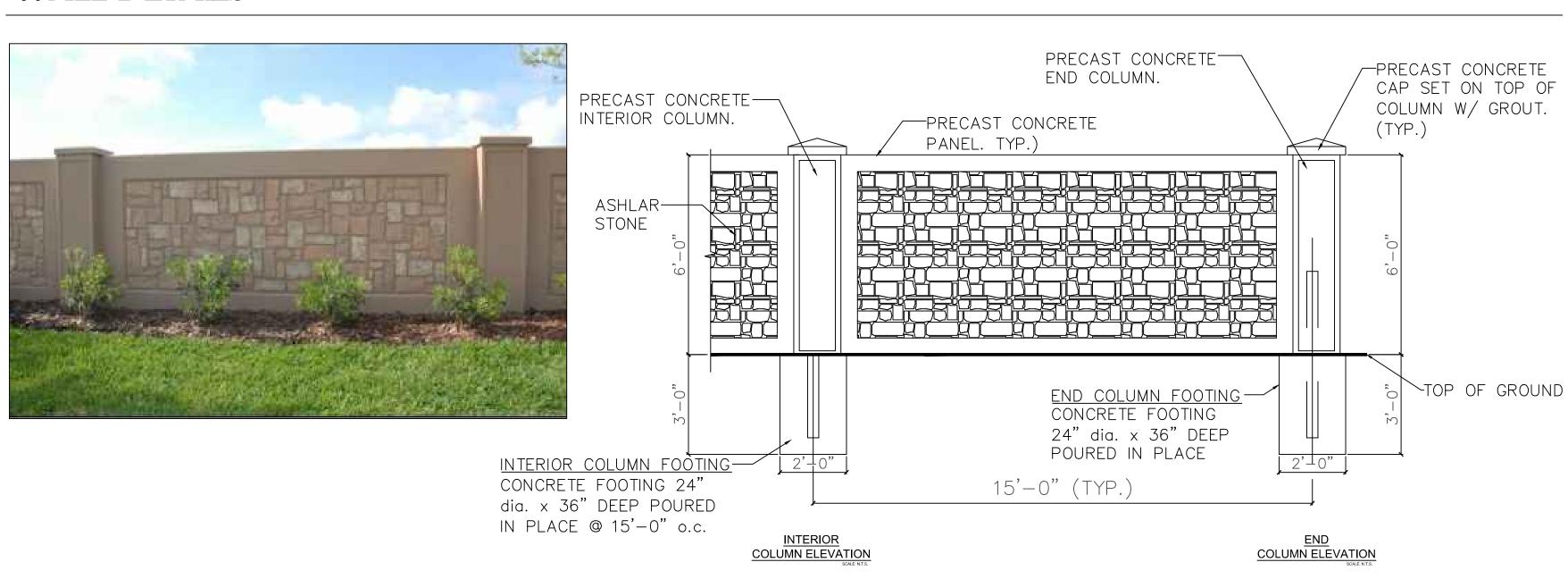
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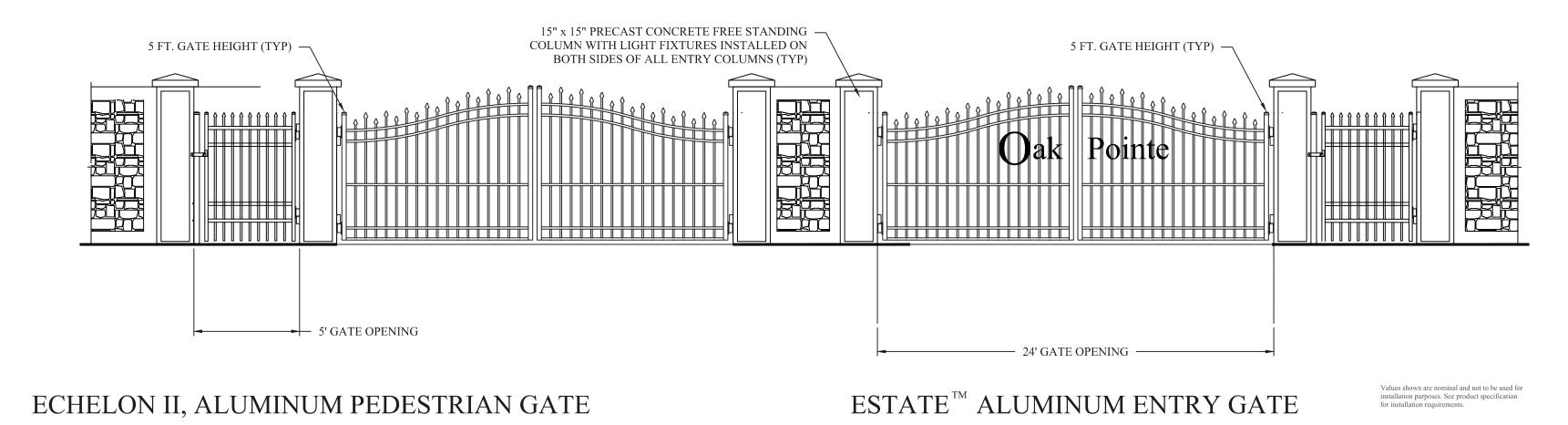
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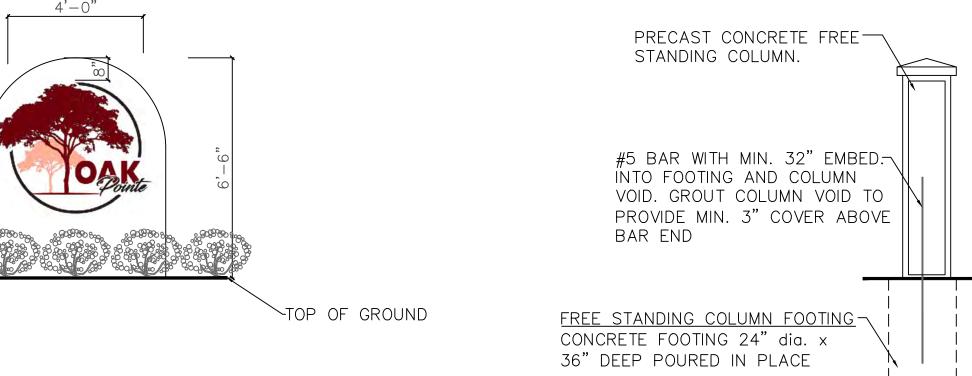




### GATE ELEVATIONS (TYPICAL LAYOUT FOR NORTH & SOUTH ENTRIES)



### SOUTH ENTRY SIGN ELEVATION



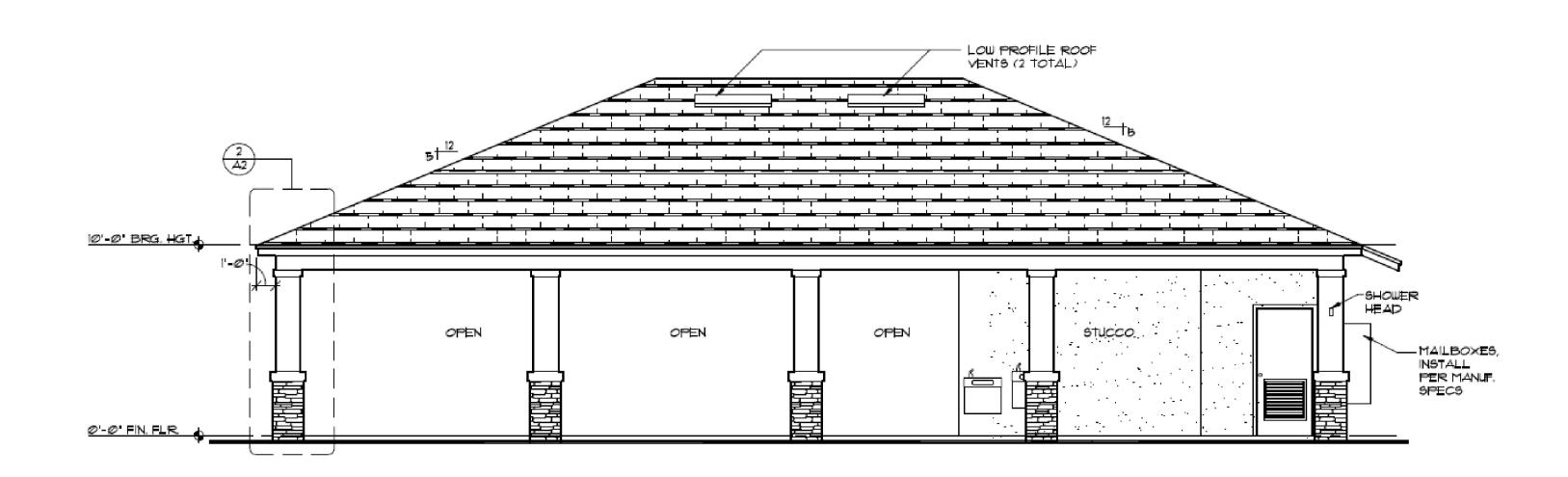
### FREE STANDING COLUMN

### **ENTRANCE** LANDSCAPE PLAN

LANDSCAPE & IRRIGATION DESIGN

2008 WHICH ESTABLISHES WATERWISE LANDSCAPE AND IRRIGATION STANDARDS.

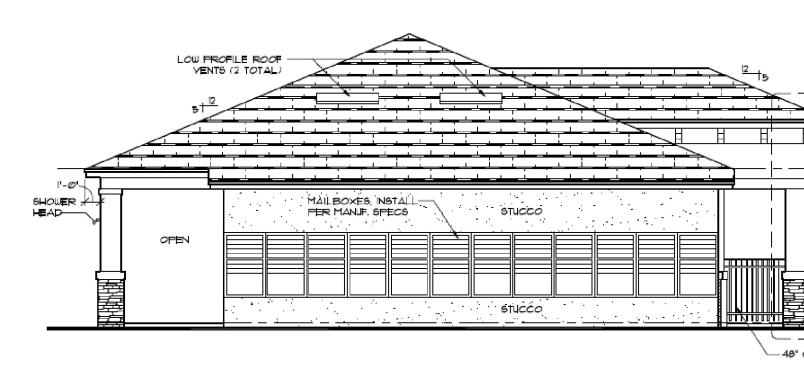
### FRONT ELEVATION



### REAR ELEVATION

RIGHT ELEVATION

10'-0' BRG. HGT. 👆 🟄



LEFT ELEVATION

## 

POOL & CABANA LANDSCAPE

BIKE RACK (TYP)

CRAPE MYRTLE (TYP)

LOT CANOPY TREE (TYP)

- LIVE OAK STREET TREE (TYP)

VIBURNUM HEDGE (TYP)

GROUNDCOVERS (TYP)

- PALMS WITH SHRUBS &

- VIBURNUM HEDGE (TYP)  $^{-}$ 

GROUNDCOVERS (TYP)



SCHWEIZER BOJACK LANDSCAPE ARCHITECTURE

6 11/10/17

7/21/17 • 4 6/23/17 3 5/17/17

2 5/01/17 1 4/12/17

1/31/17 • DRAWN BY: KB

SHEET NUMBER

2008 WHICH ESTABLISHES WATERWISE LANDSCAPE AND IRRIGATION STANDARDS.

( IN FEET ) 1 inch = 30 ft.

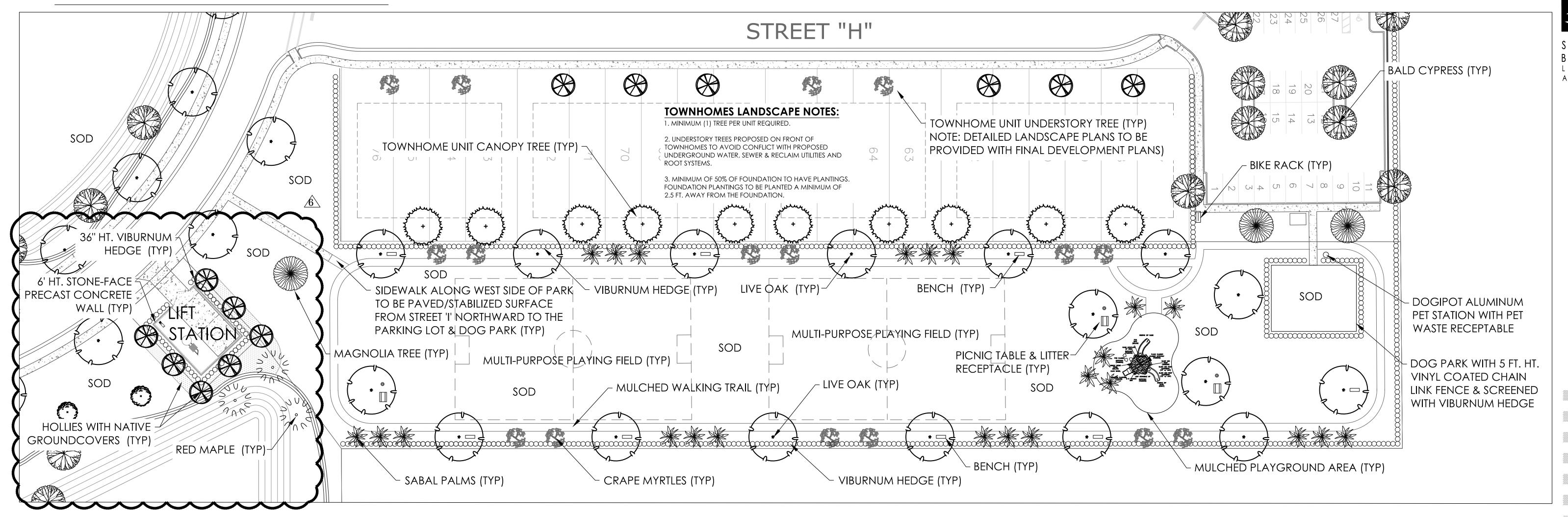
POOL & CABANA

LANDSCAPE PLAN

LANDSCAPE & IRRIGATION DESIGN

SIGNATURE

### TOWNHOME, LIFT STATION & PARK



TUFFCLAD SERIES HEAVY DUTY PICNIC TABLE Model 28014, by Gametime



ARLINGTON SERIES BENCH WITH ARMREST

Model UF9106, by Gametime



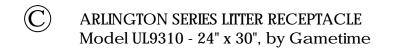


CANYON CABIN PLAYGROUND Model PS16010, by PowerScape



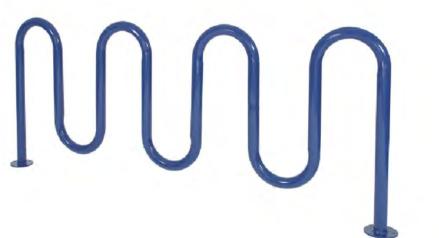






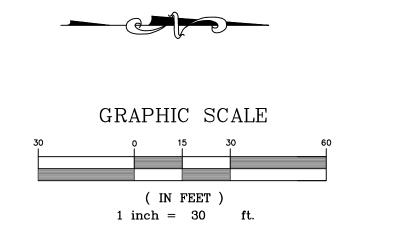


LOOP BICYCLE RACK Model 7700, by Gametime



### PARK & AMENITY PLAN NOTES:

- 1. PEDESTRIAN LEVEL LIGHTING TO BE PROVIDED WITH FINAL DEVELOPMENT PLANS.
- 2. DETAILED LANDSCAPE PLANS WITH ADDITIONAL GROUNDCOVERS TO BE PROVIDED WITH FINAL DEVELOPMENT PLANS.
- 3. SIDEWALK RUNNING ALONG WESTERN SIDE OF PARK SHALL BE PAVED/STABILIZED SURFACE FROM STREET "I" NORTHWARD TO THE PARKING LOT & DOG PARK TO ACCOMMODATE HANDICAP ACCESSIBILITY.



### TOWNHOME, LIFT STATION & PARK LANDSCAPE & AMENITIES PLAN

LANDSCAPE & IRRIGATION DESIGN

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

SCHWEIZER

BOJACK LANDSCAPE ARCHITECTURE

6\11/10/17 5 7/21/17

4 6/23/17 3 5/17/17

2 5/01/17 1 4/12/17

1/31/17 • DRAWN BY: KB SHEET NUMBER



### Express





The **Aria** 3 Bedroom ∣ 2 Bath ∣ 2 Car Garage 1,672 Square Feet\*

### Express





The **Flora** 4 Bedroom ∣ 2.5 Bath ∣ 2 Car Garage 2,264 Square Feet\*

### Express





The **Cali** 3-4 Bedroom ∣ 2 Bath ∣ 2 Car Garage 1,828 Square Feet\*

### Express





The Galen
4 Bedroom | 2.5 Bath | 2 Car Garage
2,432 Square Fact
86

### Express





The **Arden** 4 Bedroom ∣ 2.5 Bath ∣ 2 Car Garage 1,969 Square Feet\*

### Express





The **Hayden** 5 Bedroom ∣ 3 Bath ∣ 2 Car Garage 2,601 Square Feet\*

REVISIONS

A REV PER DRC COMMENTS

REV PER DRC COMMENTS

DAVID L. EVANS FLORIDA P.E. NO. 46586 Nov 13. 2017

LAND PLANNING PERMITTING SERVICES

19 IRMA AVENUE

10, FLORIDA 32803

(407) 872-1515

M. EVGINSENGINC. COM

OF AUTHORIZATION NO. 00006788

FOR HILLS ESTATES LLC

OPMENT PLAN
HITECTURAL
EVATIONS

DRAWN:
TVW / MWK
CHECKED:
MPG
DATE:
NOV 2017
SCALE:
NTS
JOB #:
25801

SHEET #:

### Express





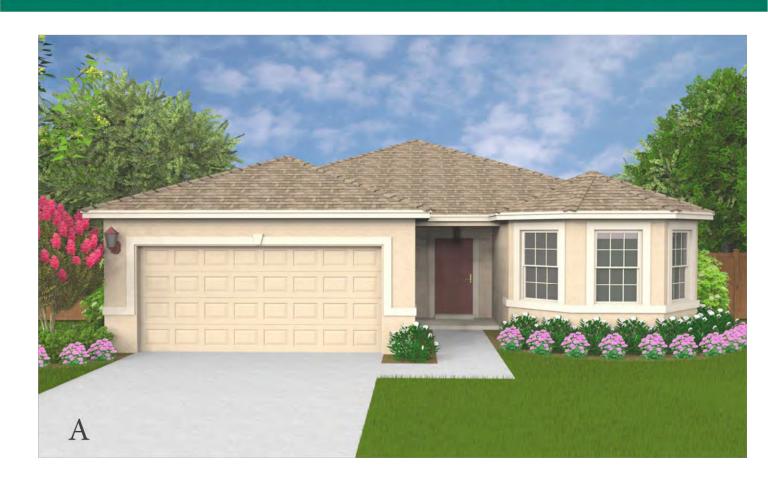
The Elle
5 Bedroom | 2.5 Bath | 2 Car Garage
2,807 Square Feet\*

### Wellfleet 1798E -



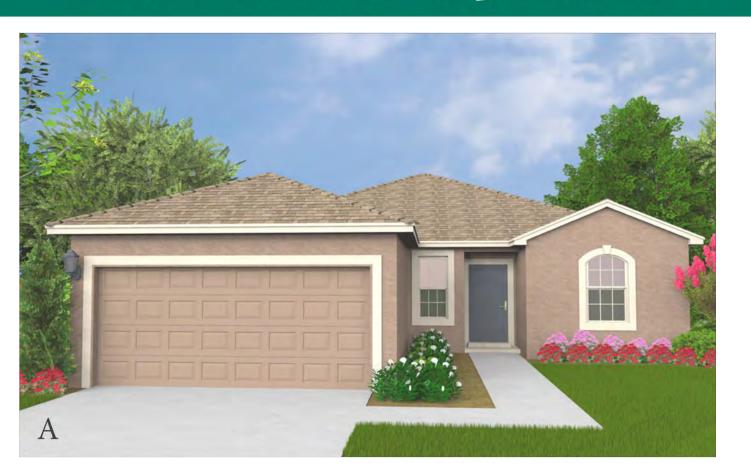


### Eastham 1756E -





### Harwich 1542E -





REVISIONS BY

RC COMMENTS TV/A

RC COMMENTS JK/N

4-20-17 1 REV PER DRC COMMEN 6-26-17 2 REV PER DRC COMMEN

DAVID L. EVANS
FLORIDA P.E. NO. 46586
NOV 13, 2017

ERING LAND PLANNING PERMITTING SERVICES
719 IRMA AVENUE
RLANDO, FLORIDA 32803
(407) 872-1515

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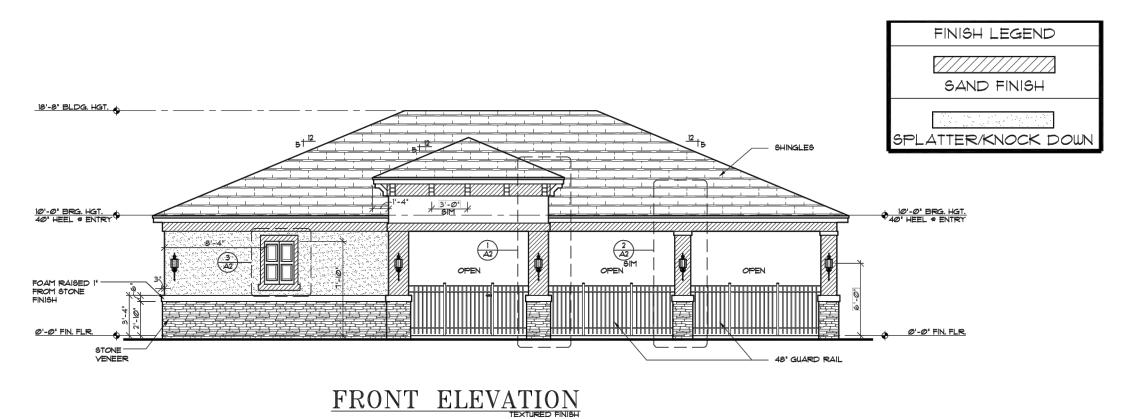
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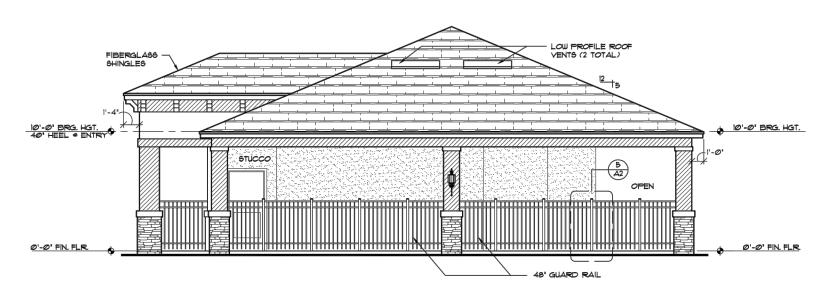


### REAR ELEVATION TEXTURED FINISH

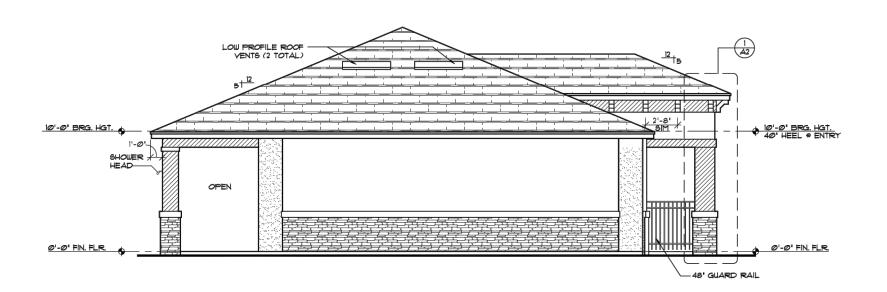
FINISH LEGEND

SAND FINISH

LATTER/KNOCK DOWN



RIGHT ELEVATION



LEFT ELEVATION TEXTURED FINISH

### POOL CABANA



### HOLLY

3 Bedroom | 2.5 Bath 1-Car Garage 1,530 Sq. Ft.\*

### **TOWNHOUSES**



### KELSEY

3 Bedroom | 2.5 Bath 1-Car Garage 1,674 Sq. Ft.\*

**TOWNHOUSES** 

DATE

4-20-17

A-20-17

Calculate the per drope comments

6-26-17

Calculate the per drope comments

JR/MWK

DAVID L. EVANS
FLORIDA P.E. NO. 46586
DATE:

ENGINEERING PERMITING SERVICES
719 IRMA AVENUE
RANDO, FLORIDA 32803
(407) 872-1515

WWW.EVGINSENGINC.COM

FOR MPSON HILLS ESTATES LLC

RCHITECTURAL ELEVATIONS

DRAWN:
TVW / MWK

CHECKED:
MPG

DATE:
NOV 2017

SCALE:
NTS

JOB #:
25801

SHEET #:

Planning Commission March 13, 2018 Page 89

### Backup material for agenda item:

4. PLAT – BINION RESERVE SUBDIVISION - Owned by Gail W. Brown, c/o Jeffrey A. Sedloff, P.E., June Engineering Consultants, Inc. and located at 1078 South Binision Road. (Parcel ID #: 18-21-28-0000-00-057)



### CITY OF APOPKA PLANNING COMMISSION

X PUBLIC HEARING

SITE PLAN

SPECIAL REPORTS

X OTHER: Plat

MEETING OF: March 13, 2018

FROM: Community Development

EXHIBITS: Vicinity Map

Aerial Map

Plat

Final Development Plan

SUBJECT: BINION RESERVE RESIDENTIAL SUBDIVISION – PLAT

REQUEST: RECOMMEND APPROVAL OF THE BINION RESERVE

SUBDIVISION PLAT

**SUMMARY**:

OWNER/APPLICANT: Gail W. Brown

PROJECT ENGINEER: June Engineering Consultants, Inc., c/o Jeffrey A. Sedloff, P.E.

LOCATION: 1078 South Binion Road (south of Lust Road & west of Binion Road)

EXISTING USE: Vacant Single Family Residence

FUTURE LAND USE: Residential Low Density (0 - 5 du/ac)

ZONING: R-1A (Single Family Residential)

MINIMUM LOT WIDTH: 85 feet typical lot width

MINIMUM LOT SIZE: 10,000 square feet

PROPOSED DEVELOPMENT: 44 Single Family Residential Lots

TRACT SIZE: 21.39 +/- acres

PROPOSED DENSITY: 2.05 du/ac

**FUNDING SOURCE: N/A** 

DISTRIBUTION

Mayor KilsheimerFinance DirectorPublic Services DirectorCommissionersHR DirectorRecreation 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)	Res. Low Suburban (0-3.5 du/ac)	A-1 (ZIP)	Vacant
East (City)	Res. Low (0-5.0 du/ac)	A-1 (ZIP)	Single Family Residential
East (County)	Rural (1 du/10 acres)	A-1	Single Family Residential
South (City)	Mixed-Use	A-1 (ZIP)	Single Family Residential
West (City)	Res. Low (0-5.0 du/ac)	R-1A/R-O-W	Vacant/SR 429

<u>Project Summary</u>: Planning Commission reviewed and recommended approval of the Binion Reserve Preliminary Development Plan (PDP on July 12, 2016. The Planning Commission role is to review the Plat for consistency with the PDP, as the Planning Commission Chair is required to sign the Plat.

The Binion Reserve Final Development Plan proposes the development of 44 single family residential lots. Located within the R-1A zoning district, the community provides a typical lot width standard of 85 feet and minimum lot size of 10,000 square feet.

The proposed minimum living area, in aggregate of 1,600 square feet, with a no individual unit being less than 1,600 square feet as set forth in Section 2.02.20.B.4 of the Land Development Code. At the time of the final development plan, developer will be requested to establish criteria to assure a 2,000 sq. ft. aggregate is monitored and maintained during the building permit application cycle.

The minimum setbacks applicable to this project are:

Setback	Min. Standard
Front*	25'
Side	10'
Rear	20'
Corner	25'

<sup>\*</sup>Front-entry garage must be setback 30 feet.

Access: Ingress/egress access points for the development will be via full access onto Binion Road.

<u>Stormwater</u>: The stormwater management system includes an on-site retention area. Stormwater ponds are located within Tract "A" and Tract "I". The stormwater ponds design meets the City's Land Development Code requirements.

**Recreation:** The developer is providing 0.51 acres (22,120 square-feet) of active and passive recreation space. Details of active and passive recreation equipment and facilities are submitted with the final development plan.

**<u>Buffer/Tree Program</u>**: A ten-foot wide landscaped buffer easement is provided along the western project line adjacent to the S.R. 429 right-of-way with a 6-foot tall brick, masonry, concrete or precast wall. A thirty-foot wide buffer tract with a 6-foot tall brick, masonry, concrete or precast wall are provided along Binion Road.

### PLANNING COMMISSION – MARCH 13, 2018 BINION RESERVE SUBDIVISION – PLAT PAGE 3

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

Total inches on-site:	8561
Total number of specimen trees removed:	67
Total specimen tree inches retained:	1505
Total inches replaced:	756
Total inches removed:	5797
Total inches retained:	2764
Total inches post development:	3520

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

March 13, 2018 - Planning Commission, 5:30 p.m. April 4, 2018 - City Council, 1:30 p.m.

### **RECOMMENDATION ACTION:**

The **Development Review Committee** finds the Binion Reserve Plat to be consistent with the Preliminary Development plan and Final Development Plan, and recommends approval of Binion Reserve Subdivision Plat subject to the final review by the City surveyor and City Engineer prior to recording the plat.

**Planning Commission Recommendation:** Find the Binion Reserve Subdivision Plat consistent with the Land Development Code and recommend approval of the Plat subject to the findings of the Staff Report

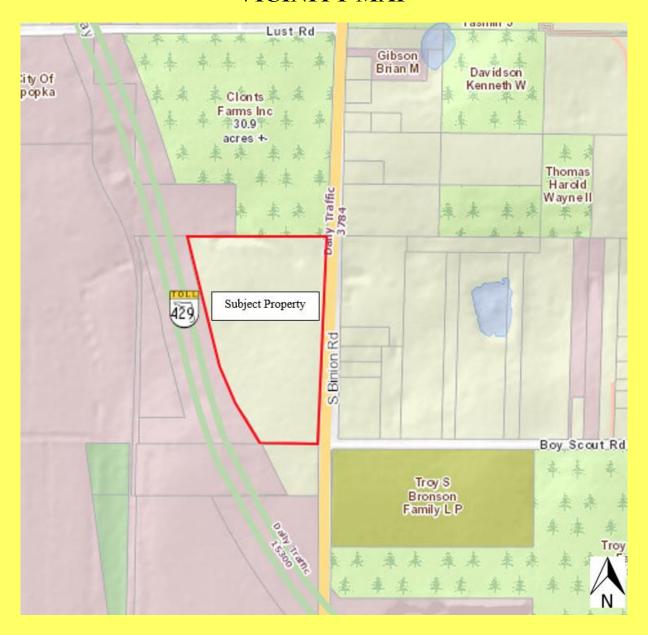
**Planning Commission Role:** The role of the Planning Commission for this development application is to advise the City Council to approve, deny, or approve with conditions based on consistency with the Final Development Plan Comprehensive Plan and Land Development Code.

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.

Gail Brown, c/o Jeffrey A. Sedloff, P.E.
June Engineering Consultants, Inc.
Binion Reserve Subdivision
21.39 +/- acres

Proposed number of units: 44
Parcel ID No.: 18-21-28-0000-00-057

### **VICINITY MAP**



### **AERIAL MAP**



### BINION RESERVE

SHEET 1 OF 3

A PART OF SECTION 18, TOWNSHIP 21 SOUTH, RANGE 28 EAST CITY OF APOPKA, ORANGE COUNTY, FLORIDA

DESCRIPTION

THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4, SECTION 18, TOWNSHIP 21 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA;

S. BINION ROAD (aka S.R. 437A) AND ALSO LESS SEABOARD COAST LINE RAILROAD;

A PARCEL OF LAND SITUATE IN SECTION 18, TOWNSHIP 21 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA; MORE PARTICULARLY DESCRIBED

COMMENCE AT A 4 INCH BY 4 INCH CONCRETE MONUMENT STAMPED "L.F. HENRICH R.L.S. NO. 1263 P.R.M. MAITLAND, FLA." AS SHOWN ON PLAT OF SURVEY BY HENRICH INC. LAND SURVEYORS DATED 11-19-73 AND BOUNDARY SURVEY BY P.E.C. FOR S.J.R.W.M.D. LAST DATED 8-10-98 MARKING THE NORTHWEST CORNER OF SAID SECTION 18; THENCE RUN NORTH 89°39'46" EAST 1,320.44 FEET ALONG THE NORTH LINE OF SAID SECTION 18 TO THE WEST BOUNDARY OF THE EAST 1/2 OF THE NORTHWEST 1/4 OF SAID SECTION 18, AS SHOWN ON P.E.C. S.J.R.W.M.D. SURVEY; THENCE SOUTH 01'03'27" WEST 1,337.48 FEET ALONG SAID WEST BOUNDARY LINE TO A POINT ON THE NORTH LINE OF THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4 OF SAID SECTION 18; THENCE DEPARTING SAID WEST BOUNDARY LINE, RUN ALONG SAID NORTH LINE. SOUTH 89°52'24" EAST 39.26 FEET TO POINT OF BEGINNING: THENCE CONTINUE ALONG SAID NORTH LINE. SOUTH 89°52'24" EAST 306.42 FEET; THENCE DEPARTING SAID NORTH LINE, SOUTH 09°56'34" EAST 159.99 FEET; THENCE SOUTH 14°48'28" EAST 700.00 FEET; THENCE SOUTH 23°31'40" EAST 290.42 FEET; THENCE SOUTH 38°37'42" EAST 100.53 FEET; THENCE SOUTH 30°39'48" EAST 197.78 FEET TO THE NORTH LINE OF THE SOUTHWEST 1/4 OF SAID SECTION 18; THENCE NORTH 89°58'47" WEST 796.70 FEET ALONG SAID NORTH LINE OF THE SOUTHWEST 1/4 TO THE EASTERLY RIGHT OF WAY LINE OF FORMER S.C.L.R.R. AS MONUMENTED FOR S.J.R.W.M.D. BY P.E.C.; THENCE NORTH 01°03'18" EAST 174.53 FEET ALONG SAID EASTERLY RIGHT OF WAY LINE: THENCE DEPARTING SAID EASTERLY RIGHT OF WAY LINE. RUN SOUTH 89°53'41" EAST 295.19 FEET; THENCE NORTH 14°33'12" WEST 573.59 FEET; THENCE NORTH 07°06'24" WEST 100.81 FEET; THENCE NORTH 14°48'28" WEST 538.38 FEET TO THE POINT OF BEGINNING.

### AND ALSO LESS;

A PARCEL OF LAND SITUATE IN SECTION 18, TOWNSHIP 21 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA; MORE PARTICULARLY DESCRIBED

COMMENCE AT A 4 INCH BY 4 INCH CONCRETE MONUMENT STAMPED "L.F. HENRICH R.L.S. NO. 1263 P.R.M. MAITLAND, FLA." AS SHOWN ON PLAT OF SURVEY BY HENRICH INC. LAND SURVEYORS DATED 11-19-73 AND BOUNDARY SURVEY BY P.E.C. FOR S.J.R.W.M.D. LAST DATED 8-10-98 MARKING THE NORTHWEST CORNER OF SAID SECTION 18; THENCE RUN NORTH 89°39'46" EAST 1,320.44 FEET ALONG THE NORTH LINE OF SAID SECTION 18 TO THE WEST BOUNDARY OF THE EAST 1/2 OF THE NORTHWEST 1/4 OF SAID SECTION 18, AS SHOWN ON P.E.C. S.J.R.W.M.D. SURVEY; THENCE SOUTH 01°03'27" WEST 1,337.48 FEET ALONG SAID WEST BOUNDARY LINE TO A POINT ON THE NORTH LINE OF THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4 OF SAID SECTION 18; THENCE DEPARTING SAID WEST BOUNDARY LINE, RUN ALONG SAID NORTH LINE, SOUTH 89°52'24" EAST 39.26 FEET; THENCE DEPARTING SAID NORTH LINE, RUN SOUTH 14'48'28" EAST 538.38 FEET; THENCE SOUTH 07°06'24" EAST 100.81 FEET; THENCE SOUTH 14°33'12" EAST 573.59 FEET; THENCE NORTH 89°53'41" WEST 295.19 FEET TO A POINT ON THE EASTERLY RIGHT OF WAY LINE OF FORMER S.C.L.R.R. AS MONUMENTED FOR S.J.R.W.M.D. BY P.E.C.; THENCE NORTH 01°03'18" EAST 880.37 FEET ALONG SAID EASTERLY RIGHT OF WAY LINE TO A POINT ON A TANGENT CURVE (CONCAVE SOUTHWESTERLY); THENCE FROM A CHORD BEARING OF NORTH 10°27'51" WEST, RUN NORTHWESTERLY ALONG SAID CURVE, HAVING A RADIUS OF 751.20 FEET FOR AN ARC DISTANCE OF 302.06 FEET, THROUGH A CENTRAL ANGLE OF 23°02'20" TO END OF CURVE AND POINT OF BEGINNING.

CONTAINING 21.396 ACRES, MORE OR LESS.

BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

THAT PART OF SOUTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 18, TOWNSHIP 21 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA,

COMMENCE AT THE CENTER SECTION OF SAID SECTION 18; THENCE RUN N89°58'47"W, ALONG THE SOUTH LINE OF SAID SOUTH 1/4 OF THE NORTHWEST 1/4, 89.04 FEET. TO THE POINT OF BEGINNING: THENCE CONTINUE N89°58'47"W. ALONG SAID SOUTH LINE OF SAID SOUTH 1/4 OF THE NORTHWEST 1/4, 366.58 FEET, TO THE EASTERLY RIGHT OF WAY LINE OF STATE ROAD NO. 429; THENCE RUN NORTHERLY ALONG SAID EASTERLY RIGHT OF WAY LINE THE FOLLOWING 5 COURSES: N30°39'48"W, 197.78 FEET; THENCE RUN N38°37'42"W, 100.53 FEET; THENCE RUN N23°31'40"W, 290.42 FEET; THENCE RUN N14°48'28"W, 700.00 FEET; THENCE RUN N09°56'34"W, 159.99 FEET, TO THE NORTH LINE OF SAID SOUTHEAST 1/4 OF THE NORTHWEST 1/4; THENCE RUN S89°52'24"E, ALONG SAID NORTH LINE, 906.26 FEET, TO THE WESTERLY RIGHT OF WAY LINE OF COUNTY ROAD NO. 437 (ROAD PLAT BOOK 1, PAGES 40-43, PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA); THENCE RUN SO2"16'47"W, ALONG SAID WESTERLY RIGHT OF WAY LINE, 1325.34 FEET TO A CURVE CONCAVE EASTERLY; THENCE RUN SOUTHERLY ALONG SAID CURVE HAVING A CENTRAL ANGLE OF 00"13'47", A RADIUS OF 5769.65 FEET, AN ARC LENGTH OF 23.13 FEET, A CHORD BEARING OF SO2°09'53"W AND A CHORD DISTANCE OF 23.13 FEET

CONTAINING 21.396 ACRES, MORE OR LESS.

CERTIFICATE OF AUTHORIZATION LB 7274

*32 W. PLANT STREET* Phone No. 407.905.8877

WINTER GARDEN, FL 34787 Fax No. 407.905.8875

1. BEARINGS SHOWN HEREON ARE BASED ON THE SOUTH LINE OF THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4, SECTION 18, TOWNSHIP 21 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA, AS N89°58'47"W (ASSUMED).

2. LOT LINES ARE RADIAL UNLESS NOTED WITH (NR) FOR NOT RADIAL.

3. TRACT A (STORMWATER MANAGEMENT TRACT), SHALL BE CONVEYED TO AND MAINTAINED BY THE BINION RESERVE HOMEOWNERS ASSOCIATION. SAID TRACT IS SUBJECT TO A DRAINAGE EASEMENT IN FAVOR OF THE CITY OF APOPKA, OVER THE

4. THE CITY OF APOPKA SHALL BE RESPONSIBLE FOR THE OWNERSHIP AND MAINTENANCE OF THE STORM STRUCTURES, PIPING AND MITERED END SECTIONS LOCATED WITHIN THE STORMWATER PONDS AND THE BINION RESERVE HOMEOWNERS ASSOCIATION WILL BE RESPONSIBLE FOR THE OWNERSHIP AND MAINTENANCE OF THE UNDERDRAIN SYSTEM WITHIN THE DEVELOPMENT.

5. TRACT B (UPLAND BUFFER TRACT) SHALL BE CONVEYED TO AND MAINTAINED BY THE BINION RESERVE HOMEOWNERS ASSOCÍATION WITH A CONSERVATION EASEMENT OVER THE ENTIRE TRACT DEDICATED TO ST. JOHNS RIVER WATER MANAGEMENT DISTRICT..

6. TRACT C (CONSERVATION TRACT), SHALL BE CONVEYED TO AND MAINTAINED BY BINION RESERVE HOMEOWNERS ASSOCIATION. THE DEVELOPMENT RIGHTS TO THE CONSERVATION TRACT SHALL BE DEDICATED TO THE CITY OF APOPKA.

7. TRACT D, E AND H (LANDSCAPE AND WALL TRACTS), SHALL BE CONVEYED TO AND MAINTAINED BY BINION RESERVE HOMEOWNERS ASSOCIATION.

8. TRACT F (PARK AND RECREATION TRACT) SHALL BE CONVEYED TO AND

MAINTAINED BY THE BINION RESERVE HOMEOWNERS ASSOCIATION. 9. TRACT G (LIFT STATION TRACT) SHALL BE CONVEYED AND MAINTAINED BY THE CITY OF APOPKA.

10. TRACT I (OPEN SPACE/RETENTION TRACT) SHALL BE OWNED AND MAINTAINED BY THE BINION RESERVE HOMEOWNERS ASSOCIATION.

11 THERE IS A 10.00' DRAINAGE & UTILITY EASEMENT (DUE) ON ALL FRONT LOT LINES, AS SHOWN HEREON.

12. THERE IS A 5.00' DRAINAGE AND UTILITY EASEMENT (DUE) ON ALL SIDE LOT LINES, AS SHOWN HEREON. 13. THERE IS A 7.50' DRAINAGE AND UTILITY EASEMENT (DUE) ON ALL REAR LOT

14. THE 5.00' DRAINAGE AND UTILITY EASEMENT (DUE) AROUND THE LIFT STATION (TRACT G) IS GRANTED TO THE CITY OF APOPKA FOR THE MAINTENANCE OF THE LIFT

15. THE SIDEWALK EASEMENT RUNNING ALONG BINION ROAD IS DEDICATED TO THE CITY OF APOPKA.

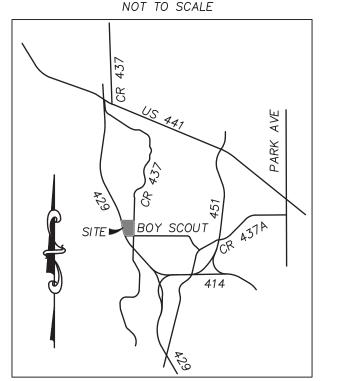
16. STREET TREES ARE TO BE PLANTED IN THE LANDSCAPE EASEMENT.

17. ALL UTILITY 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 DAMAGES THE FACILITIES OF A PUBLIC UTILITY, IN WHICH CASE THE CABLE TELEVISION COMPANY SHALL BE SOLELY RESPONSIBLE FOR THE DAMAGES.

18. THERE ARE 44 LOTS AND 9 TRACTS IN THIS SUBDIVISION.

LINES. AS SHOWN HEREON.

VICINITY MAP



SURVEYORS NOTES: 1. NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. 2. THE ELECTRONIC FILE FOR THIS PROJECT IS THE PROPERTY OF BISHMAN SURVEYING AND MAPPING, INC. AND IS NOT THE PROPERTY OF THE CLIENT.

> 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.

NOTES:

DENOTES SET PERMANENT REFERENCE MONUMENT, A 4"x4" CONCRETE MONUMENT "PRM LB 7274". UNLESS NOTED OTHERWISE.

 DENOTES SET PERMANENT CONTROL POINT, A NAIL AND DISC "PCP LB 7274", UNLESS NOTED OTHERWISE.

LEGEND

CENTRAL ANGLE R RADIUS LENGTH ARC LENGTH TANGENT LENGTH

CB CHORD BEARING CH CHORD LENGTH PC POINT OF CURVATURE

PT POINT OF TANGENCY

PRC POINT OF REVERSE CURVE PCC POINT OF COMPOUND CURVE RP RADIUS POINT POINT OF INTERSECTION

POB POINT OF BEGINNING POC POINT OF COMMENCEMENT (R) RADIAL OR OFFICIAL RECORDS BOOK

PG PAGE PB PLAT BOOK CENTERLINE

LB LICENSED BUSINESS DE DRAINAGE EASEMENT UE UTILITY EASEMENT

DUE DRAINAGE & UTILITY EASEMENT LE LANDSCAPE EASEMENT (TYP.) TYPICAL

R/W RIGHT OF WAY PCP PERMANENT CONTROL POINT PRM PERMANENT REFERENCE MONUMENT WLE WALL/LANDSCAPE EASEMENT —— DENOTES CHANGE IN DIRECTION

PLAT BOOK

PAGE

### BINION RESERVE DEDICATION

KNOW ALL MEN BY THESE PRESENTS, THAT ROHLAND A. JUNE, DIRECTOR OF FLORIDAY PROPERTIES, INC., BEING THE OWNER IN FEE SIMPLE OF THE LANDS DESCRIBED IN THE FOREGOING CAPTION TO THIS PLAT, HEREBY DEDICATES THE LIFT STATION AND ROADS AS SHOWN HEREON TO THE PERPETUAL USE OF THE PUBLIC.

IN WITNESS THEREOF, HAS CAUSED THESE PRESENTS TO BE SIGNED AND ATTESTED

BY:					
	ROHLAND	A.	JUNE,	DIRECTOR	

TO BY THE OFFICERS NAMED BELOW ON THIS

SIGNED IN THE PRESENCE OF:

SIGN NAME: SIGN NAME:

STATE OF FLORIDA COUNTY OF ORANGE

PRINT NAME:

THE FORGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS \_ 2016, BY ROHLAND A. JUNE, DIRECTOR, WHO IS PERSONALLY KNOWN TO ME AND DID NOT TAKE AN OATH, THE INDIVIDUAL DESCRIBED IN AND WHO EXECUTED THE FOREGOING CONVEYANCE AND ACKNOWLEDGED THE EXECUTION THEREOF TO BE HIS FREE ACT.

PRINT NAME:

NOTARY PUBLIC MY COMMISSION EXPIRES:

### QUALIFICATION AND STATEMENT OF SURVEYOR AND MAPPER

KNOW ALL MEN BY THESE PRESENTS, THAT THE UNDERSIGNED, BEING A PROFESSIONAL SURVEYOR AND MAPPER CERTIFIES THAT I HAVE PREPARED THE FOREGOING PLAT AND IT WAS MADE UNDER MY DIRECTION AND SUPERVISION AND THAT THE PLAT COMPLIES WITH ALL OF THE SURVEY REQUIREMENTS OF CHAPTER 177, FLORIDA STATUES; AND THAT SAID LAND IS LOCATED IN, THE CITY OF APOPKA, ORANGE COUNTY, FLORIDA.

ed:	Signed

BISHMAN SURVEYING AND MAPPING, INC. 32 WEST PLANT STREET WINTER GARDEN, FLORIDA 34787

ARON D. BISHMAN, P.S.M. Florida Registration No. 5668 Licensed Business No. 7274

### CERTIFICATE OF APPROVAL BY MUNICIPALITY

THIS IS TO CERTIFY, THAT ON \_\_\_\_\_ CITY COUNCIL THE CITY OF APOPKA APPROVED THE FOREGOING PLAT. ATTEST:

CITY CLERK JOE KILSHEIMER, MAYOR

### CERTIFICATE OF APPROVAL BY CITY ENGINEER

THIS IS TO CERTIFY. THAT ON \_\_\_\_\_ FOREGOING PLAT WAS EXAMINED AND APPROVED BY

R. JAY DAVOLL. CITY ENGINEER

### CERTIFICATE OF APPROVAL 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.

RALPH A. NIETO, P.S.M. NIETO WHITTAKER SURVEYING, LLC REGISTRATION NO. 6025

### CERTIFICATE OF APPROVAL BY APOPKA PLANNING COMMISSION

THIS IS TO CERTIFY, THAT ON \_\_\_\_\_ FOREGOING PLAT WAS APPROVED BY THE APOPKA PLANNING COMMISSION OF THE CITY OF APOPKA.

CHAIRMAN

CERTIFICATE OF APPROVAL BY THE COUNTY COMPTROLLER

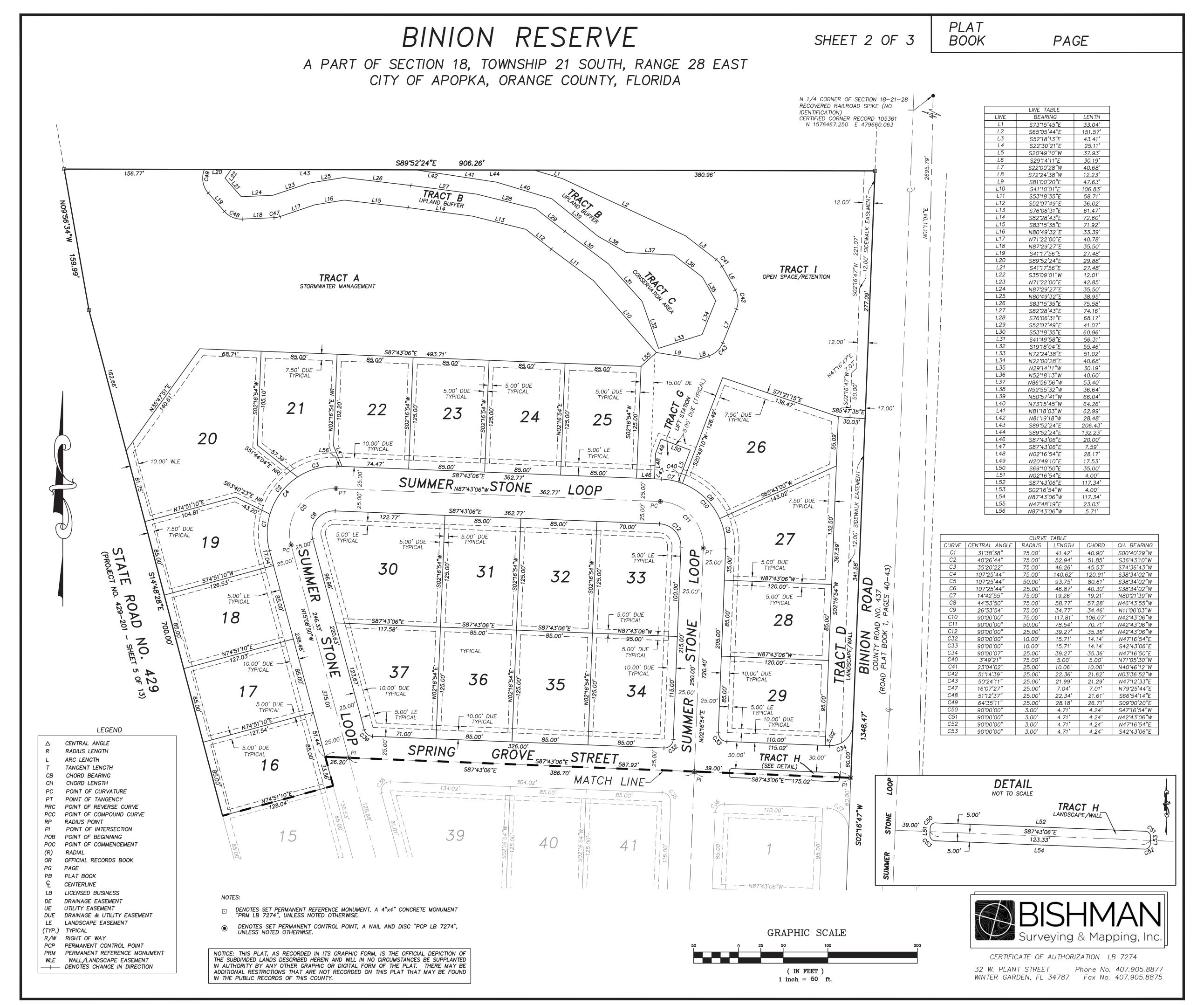
DATE

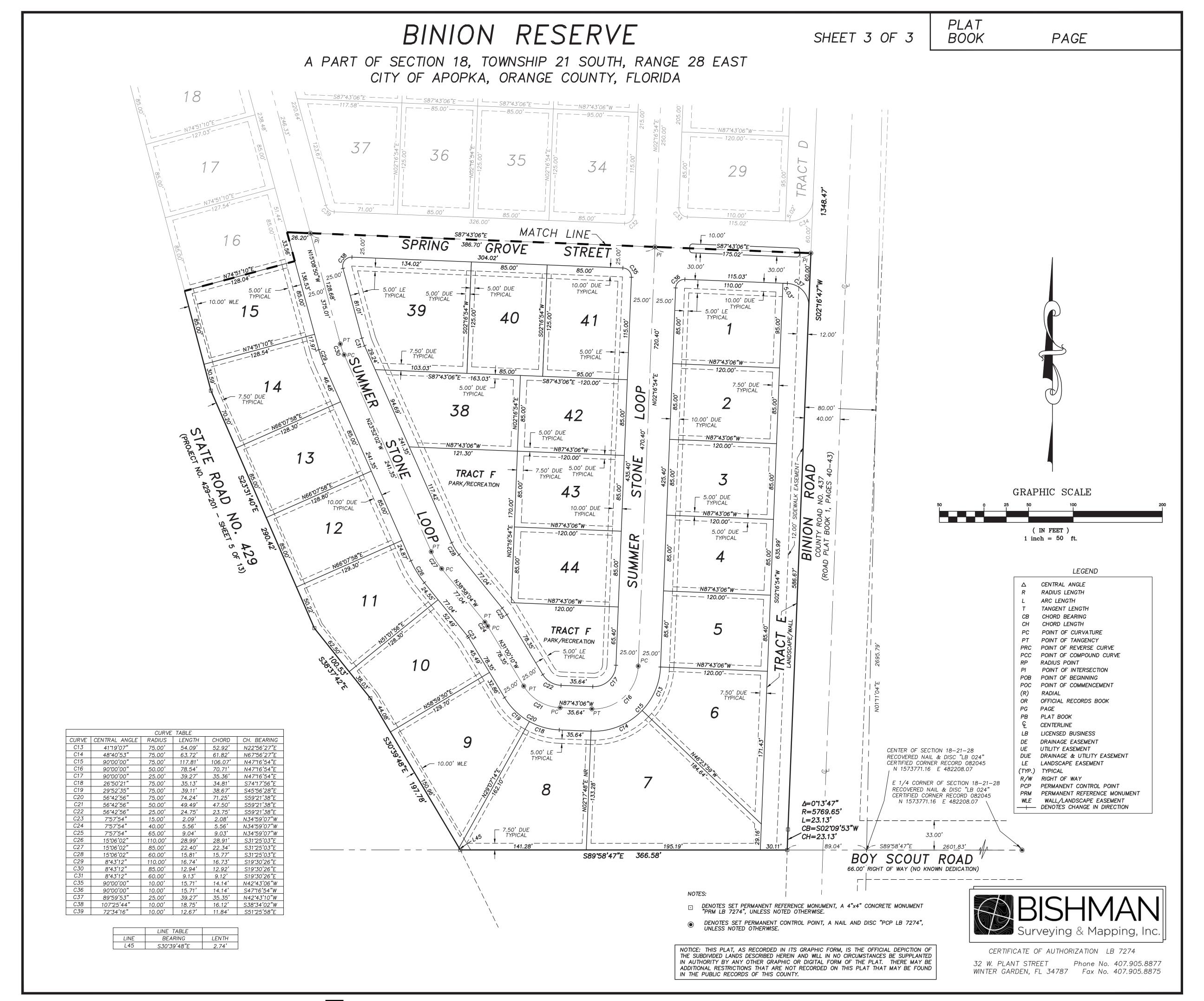
I HEREBY CERTIFY THAT THE FORGOING PLAT WAS RECORDED IN THE ORANGE COUNTY OFFICIAL RECORDS ON \_\_\_\_\_

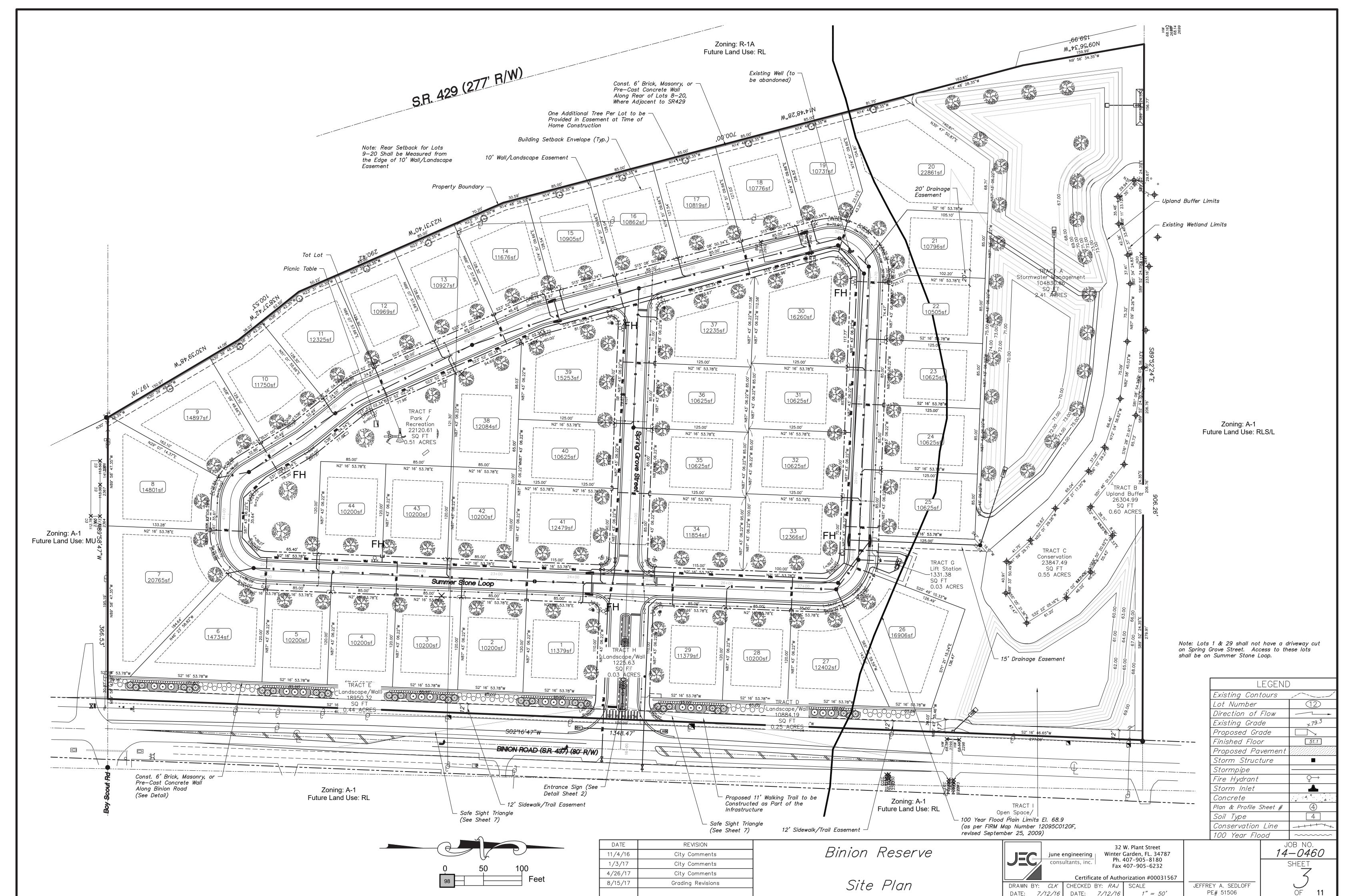
COUNTY COMPTROLLER IN

AND FOR ORANGE COUNTY, FLORIDA BY\_\_









K:\ACTIVE JOBS\0460 Brown Property\Binion Reserve Final Plans with Revised Pond.dwg, 2/8/2018 2:54:52

### Final Development Plan

Binion Reserve

THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4, SECTION 18, TOWNSHIP 21 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA;

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CONTAINING 21.396 ACRES, MORE OR LESS.

### **DEVELOPMENT INFORMATION**

21.396 Acres (932,040.61 sf.) Land Area

Existing - R-1A Zoning Single Family Residential

Vacant, Exist. Residence (mobile home) Existing Land Use

Proposed Land Use Residential Low (0-5 du/ac)

Number of Proposed Lots

2.05 units/acre Proposed Density 35 ft (2 Stories) Maximum Height

11,374 sf Average Lot Area 10,000 sf Minimum Lot Area 1,600 sf Minimum Living Area

85 ft Minimum Lot Width

Minimum Yard Setback:

25 ft 10 ft. Side Corner: 25 ft 20 ft

50 ft

Open Space:

Open Space Provided = 1 lot = .234 Ac. = 1.1%

Wetland:

*Open Space Provided = 5.94 Ac. = 27.809%* 

Tract A Tract B 0.60 0.36 Tract C 0.25 Tract D Tract E 0.44 0.51 <u>1.39</u> Tract 1 5.94

\* Irregular Lots Front Yard Setback Distance is Indicated at the Minimum Required Lot Width

Phasing

440 Average Daily Traffic Trips

Elementary — Apopka Schools Middle - Wolf Lake High – Wekiva

Sewer Flow - 13,200 gal. per day

Water Flow - 15,400 gal. per day (Fire flow per Sub. Regs.)

Provide Retention/Detention System on-site per Stormwater Sub. Regs.

Existing Vegetation: Various

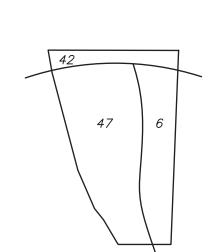
No fences, landscaping or other structures are allowed within drainage easements between lots

with underground piping.

FEMA - Site lies partially within Flood Zone X, (areas outside of 500 Yr. flood plain), with portions lying within Zone AE, (areas of 100 Yr. flood plain), with a base elevation of 70.3.

According to FIRM Map No. 12095C0120 F, Community No. 120180 0120 F, Dated September *25, 2009.* 

Parcel ID Number: 18-21-28-0000-00-057 Property Address: 1078 S. Binion Rd.



6 Candler–Apopka FS (A) 42 Sanibel Muck (A/D)

47 Tavares-Millhopper FS (A)

SOILS MAP

# W Keene Rd

### **Location Map**

Tract Information				
Tract	Use	Ownership & Maintenance		
Α	Stormwater Management	Homeowners Association		
В	Upland Buffer	Homeowners Association		
С	Conservation / Open Space	Homeowners Association		
D	Landscape/Wall	Homeowners Association		
Ε	Landscape/Wall	Homeowners Association		
F	Park / Recreation	Homeowners Association		
G	Lift Station	City of Apopka		
Н	Landscape/Wall	Homeowners Association		
,	Open Space / Retention	Homeowners Association		

O MILITA	P.O. BOX 456 CLARCONA, FL. 3	2710	(107)	000 0100
OWNER/ DEVELOPER:			(407)	905-8180
ENGINEER:	JUNE ENGINEERING P.O. BOX 770609 WINTER GARDEN, F	CONSULTANTS, INC. L. 34777-0609	(407)	905-8180
SURVEYOR:	BISHMAN SURVEYIN 32 W. PLANT STRE WINTER GARDEN, F		(407)	905-8877
GEOTECHNICAL ENGINEER:	YOVAISH ENGINEER 953 SUNSHINE LAN ALTAMONTE SPRING		(407)	774-9383
ENVIRONMENTAL CONSULTANT:	BIO-TECH CONSUL 3025 E. SOUTH ST ORLANDO, FL. 328	REET	(407)	894-5969
UTILITIES	Water Sewer Telephone Electric Cable Gas	City of Apopka City of Apopka Century Link Duke Energy Brighthouse Networks Lake Apopka Natural	Gas	

(407) 905-8180

GAIL BROWN

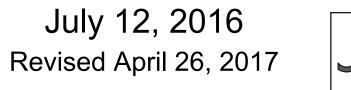
INDEX OF SHEETS			
SHEET TITLE	No.		
Cover Sheet	1		
Typical Section	2		
Overall Plan	3		
Tree Removal Plan	3a		
Overall Drainage & Grading Plan	3b		
Overall Water System Plan	3c		
Overall Reclaimed Water System	3d		
Overall Sewer Plan	3e		
SWPPP	3f		
Signage Plan	3g		
Wetland Inventory Plan	3h		
Paving-Plan & Profile	4-6		
Offsite Improvements	7		
Stormwater Management Area	8		
Site Details	9		
Lift Station Details	10-11		
General Utility Details	G1-G5		
City General Notes Plan	S1		
Landscape Plan	L1		
Irrigation Plan	i1		
Compensating Storage CS—	1, CS-2		
Plat	P1-P3		

### <u>General Notes:</u>

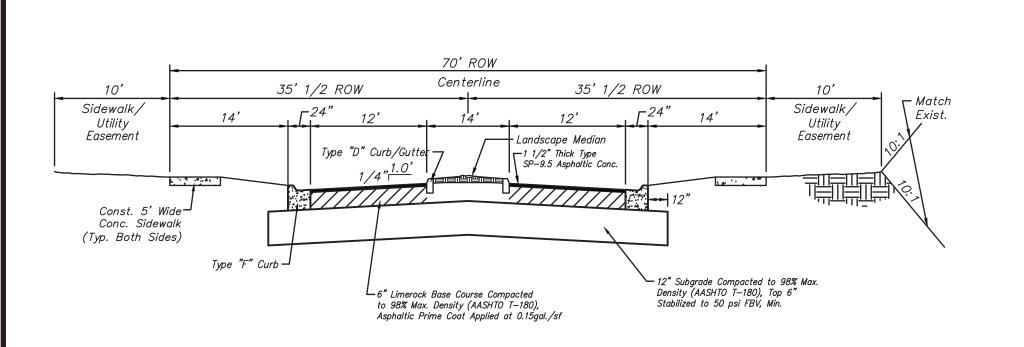
- 1. The front of all homes shall face the street. See Section 6.01.00.C.4 of the City Land Development Code.
- 2. A minimum of one street tree (canopy tree) per 30 feet on center is required per section 3.6 of the City's Development Design Guidelines.
- 3. A minimum of 3 trees per lot is required per section 3.6 of the City's Development Design Guidelines.
- 4. All power service to site and throughout the site shall be provided underground, no overhead service will be allowed.
- 5. Prior to clearing or grading the site, a letter from Florida Fish & Wildlife Commission shall be provided to the City of Apopka Planning & Zoning
- 6. All roadway and fire hydrant infrastructure must be in place before building construction begins. 7. Residential architecture will comply with the City's Development Design
- Guidelines. Architectural renderings of all proposed residential buildings must be submitted with the development plan application. 8. The front elevation of any home constructed on a cul-de-sac or on a
- curve shall be no more than a 30 degree deflection from a line perpendicular to a radial line from the center of the cul-de-sac or the radius point of a curve through the mid-point of the lot frontage. This perpendicular line shall be draw from the intersection of the radial line and the corner of the proposed structure. All minimum lot width and structure setbacks must be accomplished. Evidence of compliance with these standards shall be evidenced on the development plans, plot plans, foundation surveys and final surveys associated with the building permit and inspection process.
- 9. Front load garages shall be setback 30 feet from property line.
- 10. All stormwater design shall comply with City of Apopka Land Development Code. Compensating storage shall be provided for any fill within the 100 year flood plain.
- 11. A letter must be obtained from the Florida Fish and Wildlife Conservation Commission (FFWCC) regarding wild life management plan, prior to any construction activities occurring on site.

### <u>CERTIFICATION</u>

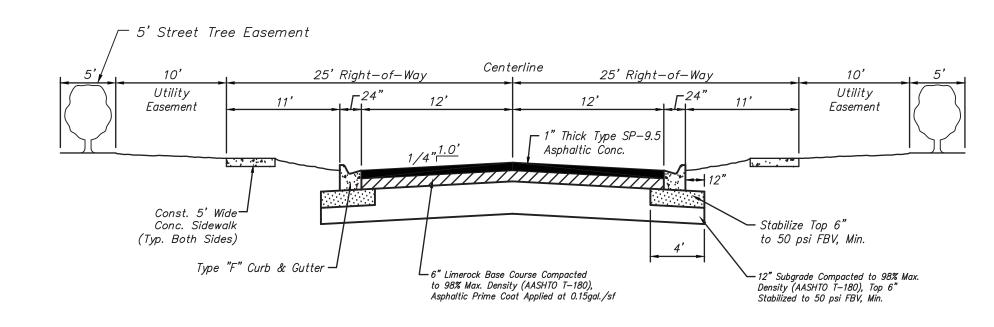
Construction plans were prepared in accordance with the "Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways, State of Florida" (FDOT Greenbook and Orange County Regulations and Specifications).

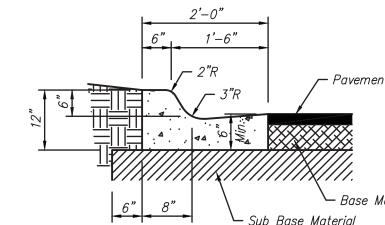




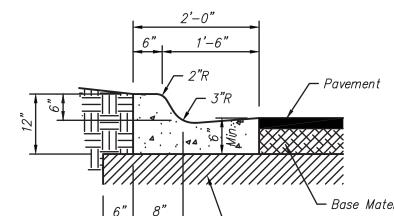


ENTRANCE ROAD SECTION





Note: When Used on High Side of Roadways, The Cross Slope of the Gutter Shall Match the Cross Slope of the Adjacent Pavement and the



Thickness of the Lip Shall be 6", Unless Otherwise Shown on Plans.

### TYPE "F" CURB & GUTTER

### Base Material - Sub Base Material

### EXISTING ZONING OF THE SUBJECT SITE IS R-1A.

INLETS.

SURVEYING & MAPPING, INC.

**GENERAL NOTES** 

THE CONTRACTOR IS RESPONSIBLE TO PROVIDE EROSION AND SEDIMENT CONTROL THROUGHT THE CONSTRUCTION PHASE WHICH SHALL INCLUDE, BUT NOT LIMITED TO THE PLACEMENT OF SILT FENCES, STACKED SYNTHETIC BALES OR OTHER SIMILAR STRUCTURES ALONG THE PERIMETER OF THE SITE. THIS WORK SHALL CONFORM TO THE REQUIREMENTS OF THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND THE FLORIDA DEPARTMENT OF TRANSPORATION AS OUTLINED IN F.D.O.T. STANDARD INDEX #102. THE CONTRACTOR SHALL PROVIDE AN EROSION CONTROL PLAN. STORM INLETS WILL BE REQUIRED TO HAVE SEDIMENT PROTECTION, SUCH AS PERFORATED PIPES WITH SOCKS.

THE ELEVATIONS SHOWN HEREON ARE BASED NATIONAL GEODETIC SURVEY BENCHMARK "GISO478 ALLISON" ELEVATION 100.20 (NAVD 88). BEING A 3"

ALL CONSTRUCTION INCLUDING BUT NOT LIMITED TO CLEARING, GRUBBING, EXCAVATION, EMBANKMENT, GRADING, GRASSING, STORM PIPE, STORM STRUCTURES, UNDERDRAIN, PAVING, CURBING, SIDEWALKS, WATER MAINS, WATER SERVICES, SEWER

CITY OF APOPKA AND TO THE FLORIDA DEPARTMENT OF

THESE AREAS PRIOR TO CERTIFICATE OF ACCEPTANCE.

ALL PROPOSED GRADES SHOWN ARE FINISHED GRADES.

UTILITIES SHOWN WERE LOCATED FROM BEST AVAILABLE

BRASS DISC SET IN TOP OF CONCRETE MONUMENT.

INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR

LOCATION AND PROTECTION OF ALL UTILITIES THAT MAY EXIST.

BRIDGE CONSTRUCTION, MOST RECENT EDITIONS

MAINS AND SERVICES, AND MATERIAL TESTING SHALL CONFORM TO

TRANSPORTATION STANDARDS AND SPECIFICATIONS FOR ROAD AND

THE FLOWLINES OF ALL CURBS SHALL BE GRADED TO OBTAIN A MINIMUM GRADE OF 0.30% AND SHALL DRAIN POSITIVELY TO ALL

BOUNDARY AND TOPOGRAPHIC INFORMATION SUPPLIED BY BISHMAN

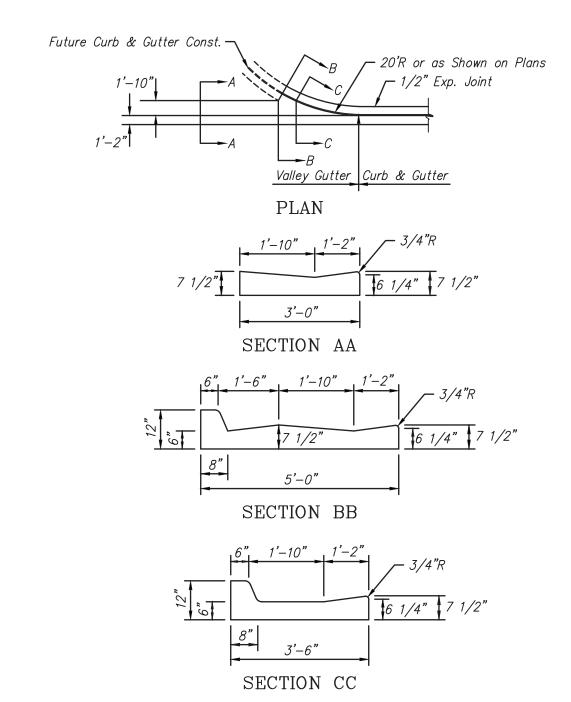
ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED UPON COMPLETION

MAY BE REQUIRED TO BE SODDED. CITY OF APOPKA WILL REVIEW ANY OF

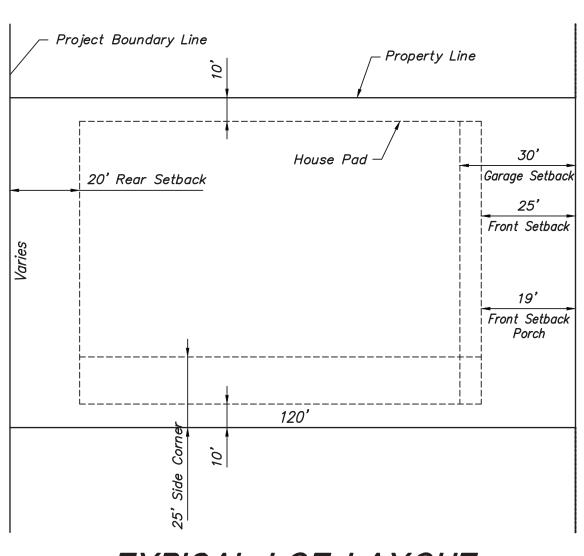
OF CONSTRUCTION. SLOPED AREAS, SWALES, POND SIDE SLOPES, ETC.

- 10. STRIPPINGS AND ALL UNCLASSIFIED MATERIALS MUST BE REMOVED FROM RETENTION AREAS AND ROADWAYS AND DISPOSED OF OFFSITE AS DIRECTED BY ENGINEERING SO AS NOT TO AFFECT BUILDING LOT PADS.
- 11. SOILS REPORT BY YOVAISH ENGINEERING SERVICES, INC.
- 12. CONTRACTOR SHALL IMMEDIATELY NOTIFY JUNE ENGINEERING CONSULTANTS, INC. OF ANY PROBLEMS REQUIRING DEVIATION FROM THESE PLANS AND SPECIFICATIONS.
- 13. CONTRACTOR SHALL PROVIDE AS-BUILT INFORMATION TO ENGINEER ON THE FOLLOWING ITEMS: PAVING GRADES AT POINTS SHOWN ON THESE PLANS; ALL STORM STRUCTURE AND PIPING INVERTS AND LOCATIONS; ALL WATER MAIN, SERVICES, FIRE HYDRANTS, VALVES, AND BLOWOFF LOCATIONS.
- 14. STORM PIPE MEASUREMENTS SHOWN ARE MEASURED TO END OF MITERED END SECTIONS AND TO THE CENTER OF STORM STRUCTURES. SANITARY PIPE MEASUREMENTS ARE TO CENTER OF STRUCTURE.
- 15. INDIVIDUAL LOT OWNERS WILL BE REQUIRED TO CONSTRUCT DRIVEWAYS AND SIDEWALKS AT THE TIME OF HOUSE CONSTRUCTION. CONTRACTOR WILL BE REQUIRED TO CONSTRUCT SIDEWALKS WHERE REQUIRED ALONG RETENTION PONDS AND COMMON TRACTS.
- CONTRACTOR SHALL COORDINATE PLACEMENT OF ALL UNDERGROUND CONDUITS NEEDED FOR UTILITIES AND IRRIGATION.
- 17. CONTRACTOR SHALL AQUIRE, REVIEW, AND MEET ALL CONDITIONS OF PERMITS PERTAINING TO THE CONSTRUCTION OF PROJECT INCLUDING BUT NOT LIMITED TO CITY OF APOPKA, ST. JOHNS RIVER WATER MANAGEMENT AND THE FLORDIA DEPARTMENT OF ENVIRONMENTAL REGULATION.
- CONTRACTOR SHALL USE PLAT FOR ALL CONSTRUCTION LAYOUT AND NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN PLAT AND CONSTRUCTION PLANS.
- 19. FILL MATERIAL SHALL BE PLACED (MAX. 12" LIFTS) AS SHOWN BY THE PROPOSED ELEVATIONS AND TYPICAL SECTIONS AND COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY (AASHTO T-180) AS VERIFIED BY A SOILS ENGINEERING COMPANY RETAINED BY THE OWNER. SUITABILITY OF FILL MATERIAL SHALL BE APPROVED BY A SOILS ENGINEER.
- THE CONTRACTOR SHALL NOTIFY ST. JOHNS RIVER WATER MANAGEMENT DISTRICT IF ANY DEWATERING SHALL BE REQUIRED. IF REQUIRED SJRWMD WILL DETERMINE IF A PERMIT IS NECESSARY.
- 21. THE FIVE FOOT WIDE CONCRETE SIDEWALK SHALL BE CONSTRUCTED BY SITE CONTRACTOR FOR LENGTH OF THE R/W FRONTAGE FOR ALL TRACTS. BUILDING CONTRACTOR SHALL BUILD SIDEWALKS IN FRONT OF LOTS AT HOUSE CONSTRUCTION, IF THE DEVELOPER EXECUTES A SIDEWALK AGREEMENT OTHERWISE ALL SIDEWALKS MUST BE INSTALLED PRIOR TO CERTIFICATE OF
- 22. CONTRACTOR TO CONFIRM ELEVATIONS OF CONNECTIONS TO EXISTING SANITARY & STORM STRUCTURES & WORKABILITY OF THE SYSTEMS, PRIOR TO CONSTRUCTION AND ORDERING OF NEW STRUCTURES.
- 23. CONTRACTOR RESPONSIBLE FOR SIZING BOXES IF NOT ADEQUATE.
- BERMS CONSTRUCTED OF FILL SHALL BE CERTIFIED BY A GEOTECHNICAL ENGINEER. A GEOTECHNICAL ENGINEER SHALL ALSO CERTIFY THAT BERMS CONSTRUCTED OF FILL HAVE BEEN COMPLETED AS DESIGNED. REFER TO RECOMMENDATIONS IN SOILS REPORT BY YOVAISH ENGINEERING SCIENCES.
- SEDIMENT AND EROSION PROTECTION MEASURES SHOWN HEREIN ARE THE MINIMUM REQUIRED. ADDITIONAL MEASURES/CONTROLS SHALL BE UTILIZED AS NEEDED DEPENDENT UPON ACTUAL SITE CONDITIONS AND CONSTRUCTION
- ALL EDGE OF ALL DRIVEWAYS SHALL BE AT LEAST FIVE FEET FROM THE SIDE YARD LOT LINE UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
- ALL BUILDING ARCHITECTURE SHALL MEET THE INTENT OF THE CITY'S DEVELOPMENT DESIGN GUIDELINES.

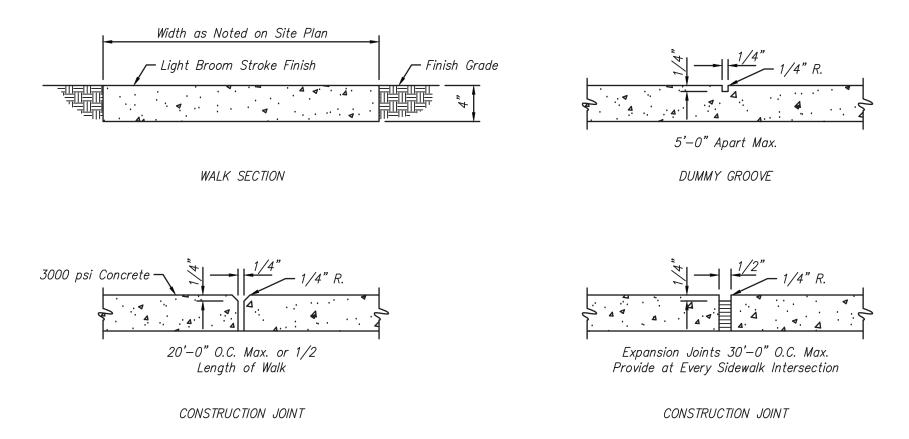
### TYPICAL ROAD SECTION



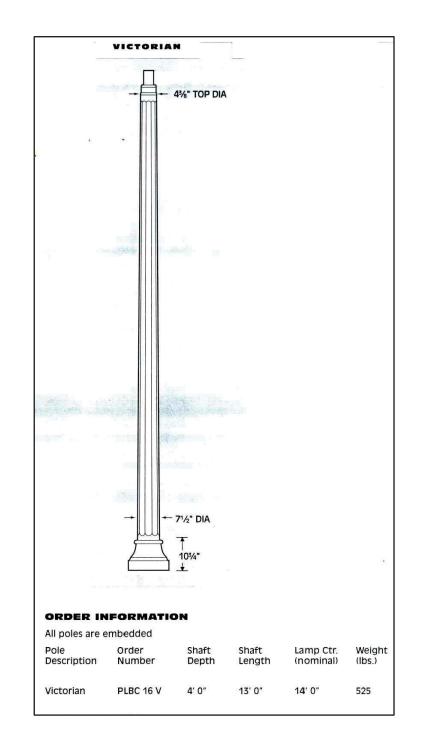
### VALLEY GUTTER

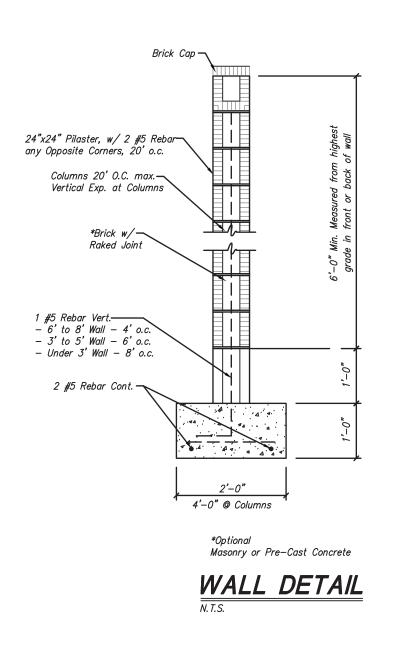


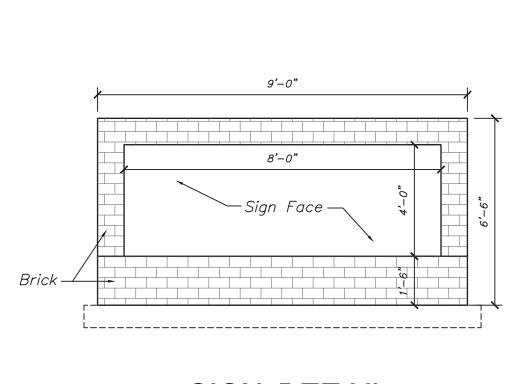
TYPICAL LOT LAYOUT



### SIDEWALK DETAILS







THEFLANDINGS

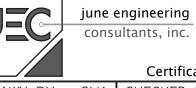
EXAMPLE OF ENTRANCE SIGN

SIGN DETAIL

### TYPICAL LIGHTPOLE

DATE	REVISION
11/4/16	City Comments

Binion Reserve



32 W. Plant Street Winter Garden, FL. 34787 Ph. 407-905-8180 Fax 407-905-6232

JOB NO.

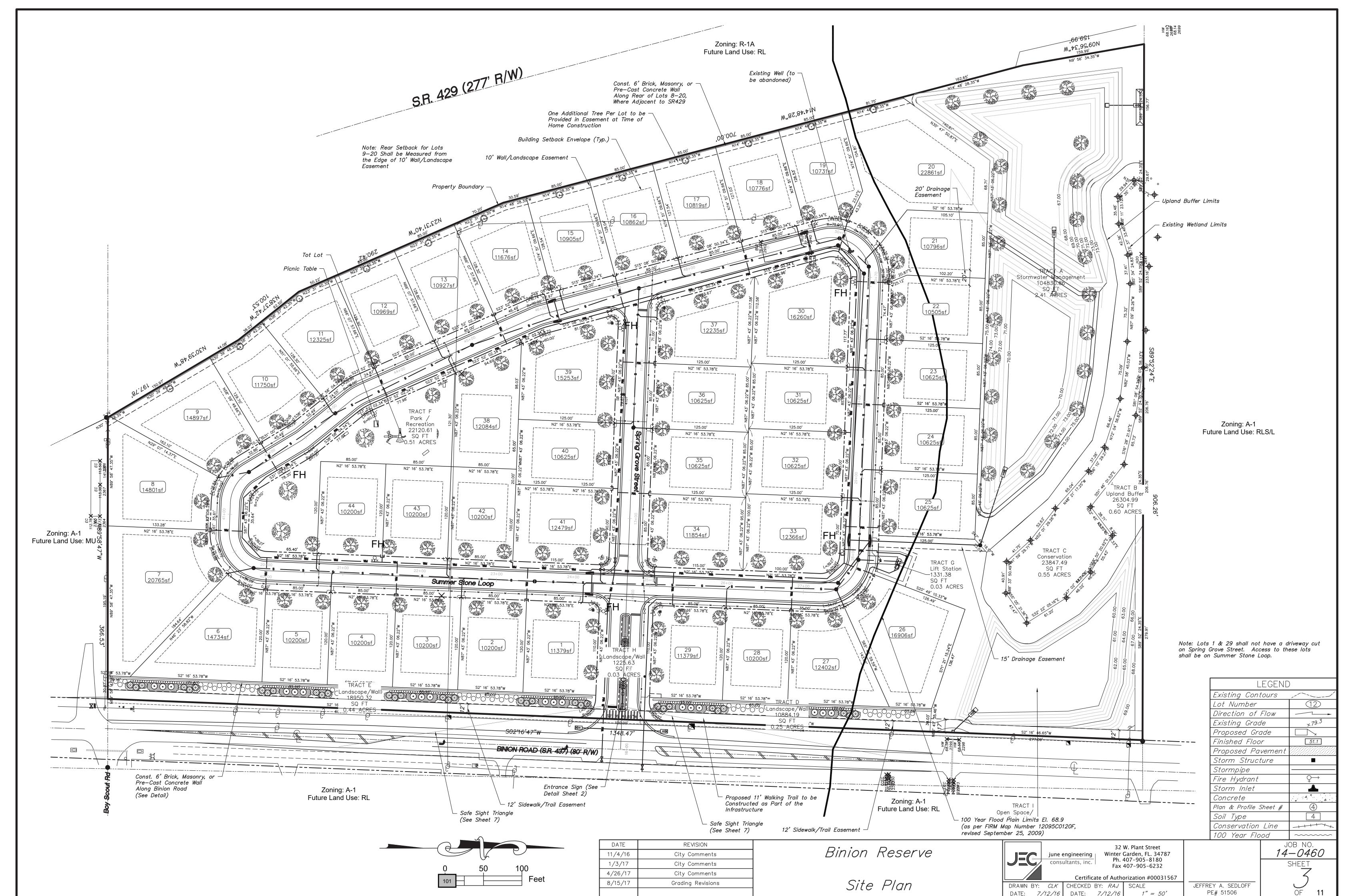
PE# 51506

Typical Sections

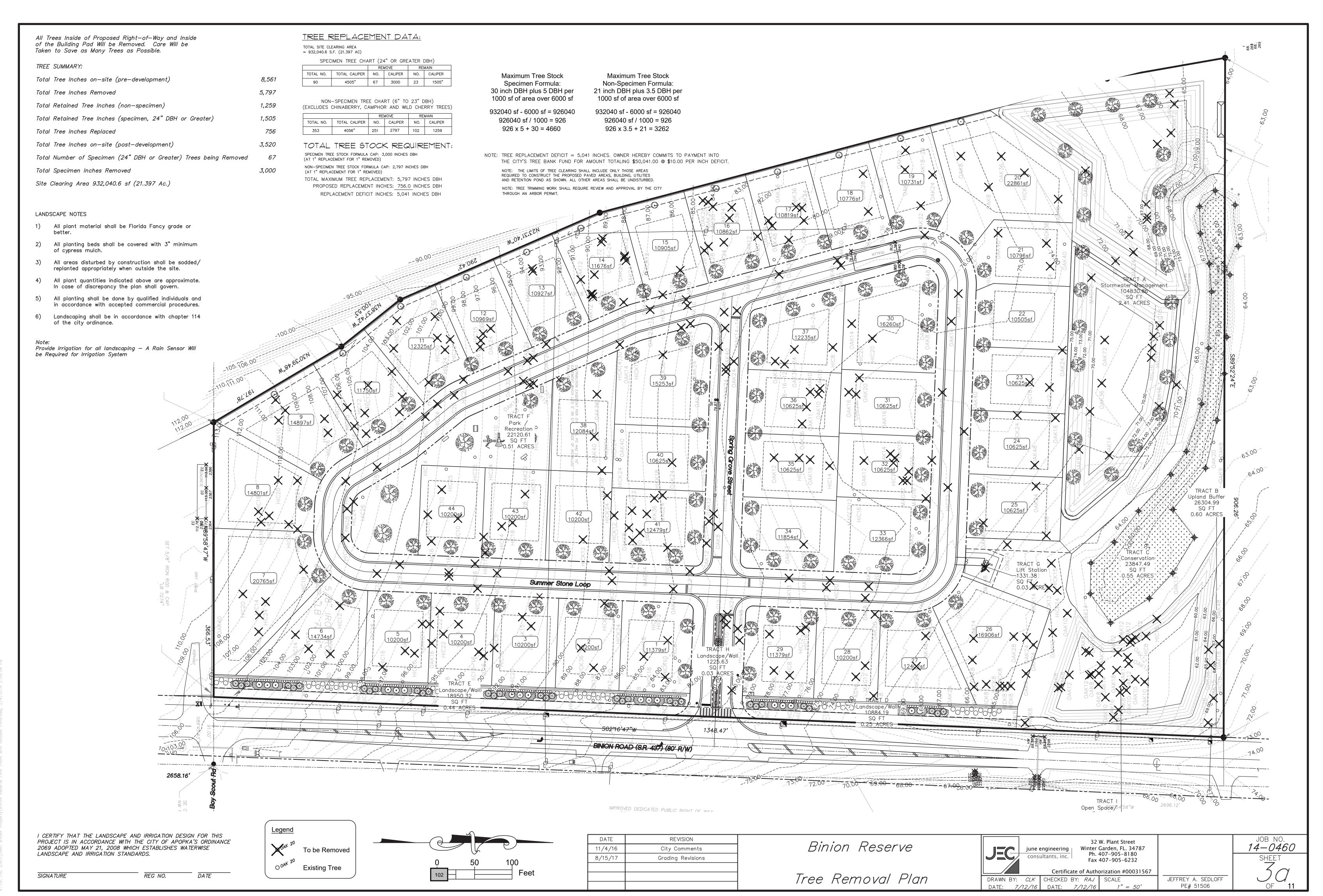
Certificate of Authorization #00031567 DRAWN BY: CLK | CHECKED BY: RAJ | SCALE DATE: 7/12/16 DATE: 7/12/16

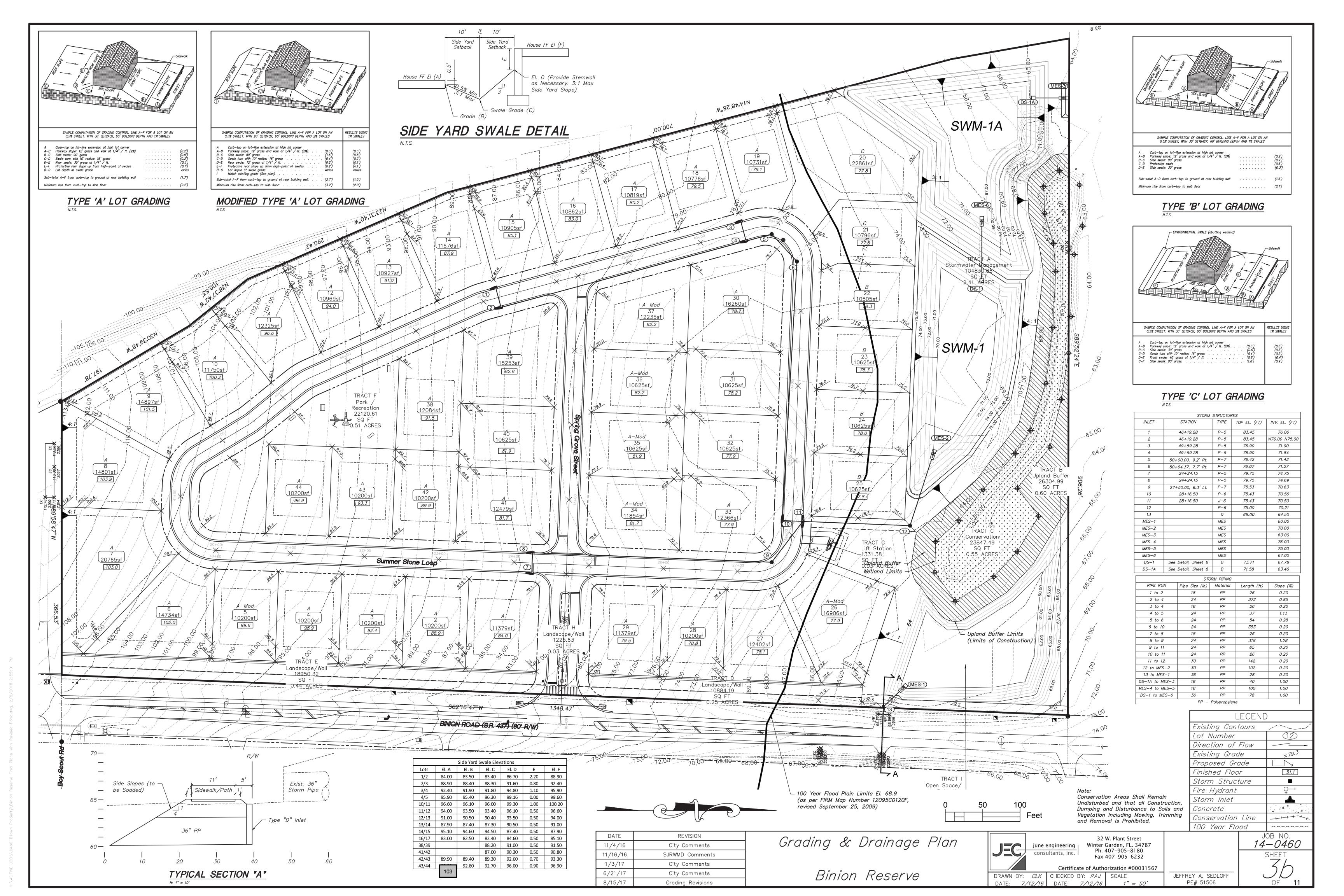
JEFFREY A. SEDLOFF

14-0460 SHEET OF



K:\ACTIVE JOBS\0460 Brown Property\Binion Reserve Final Plans with Revised Pond.dwg, 2/8/2018 2:54:52





DATE: 7/12/16

OF **11** 

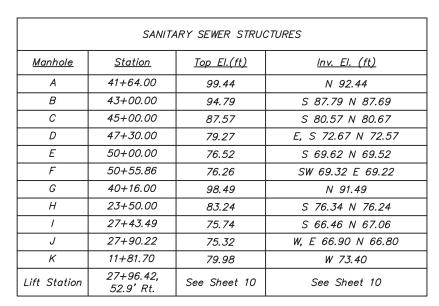
PE# 51506

DRAWN BY: CLK CHECKED BY: RAJ SCALE
DATE: 7/12/16 DATE: 7/12/16 1"

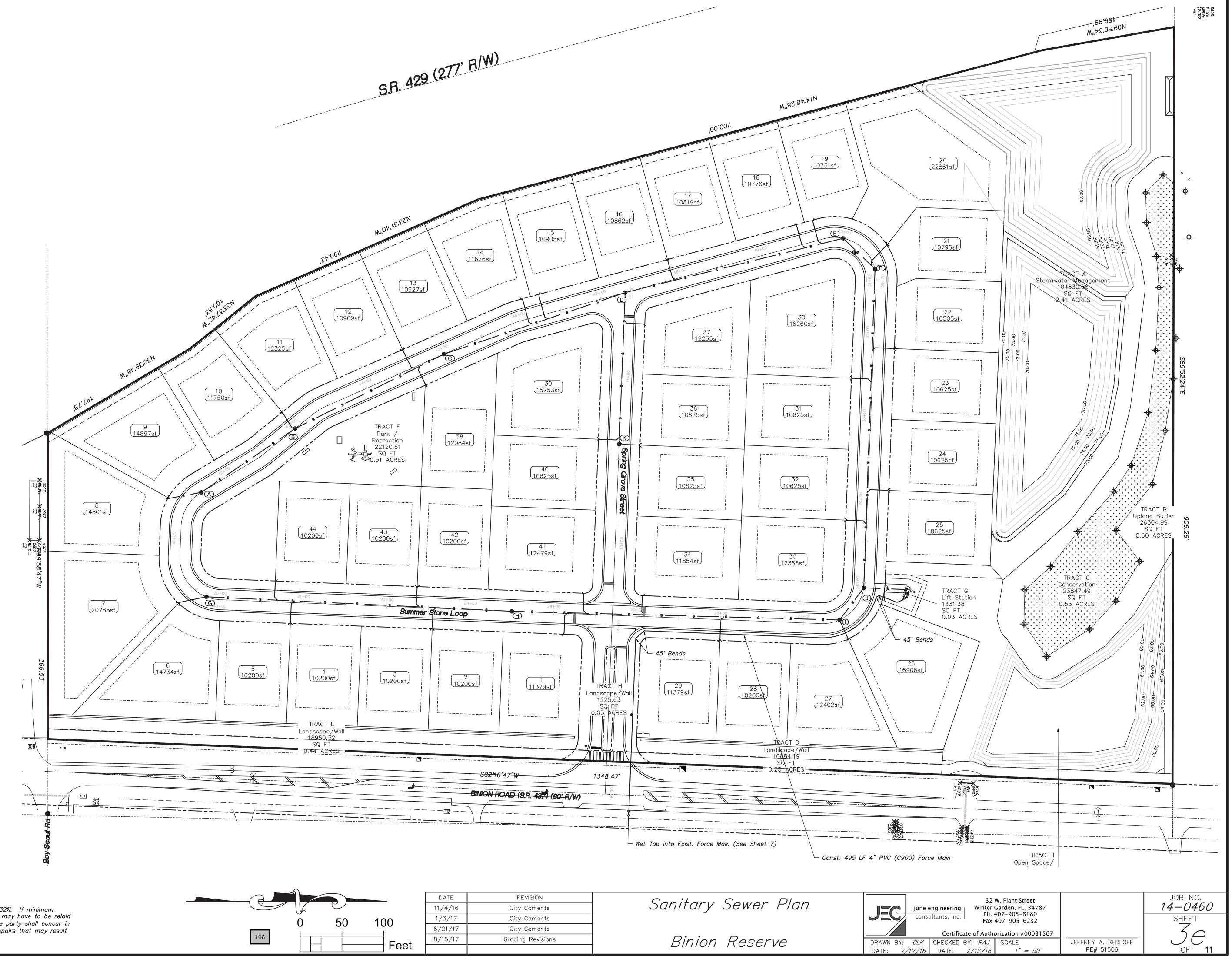
JEFFREY A. SEDLOFF

PE# 51506

OF 11

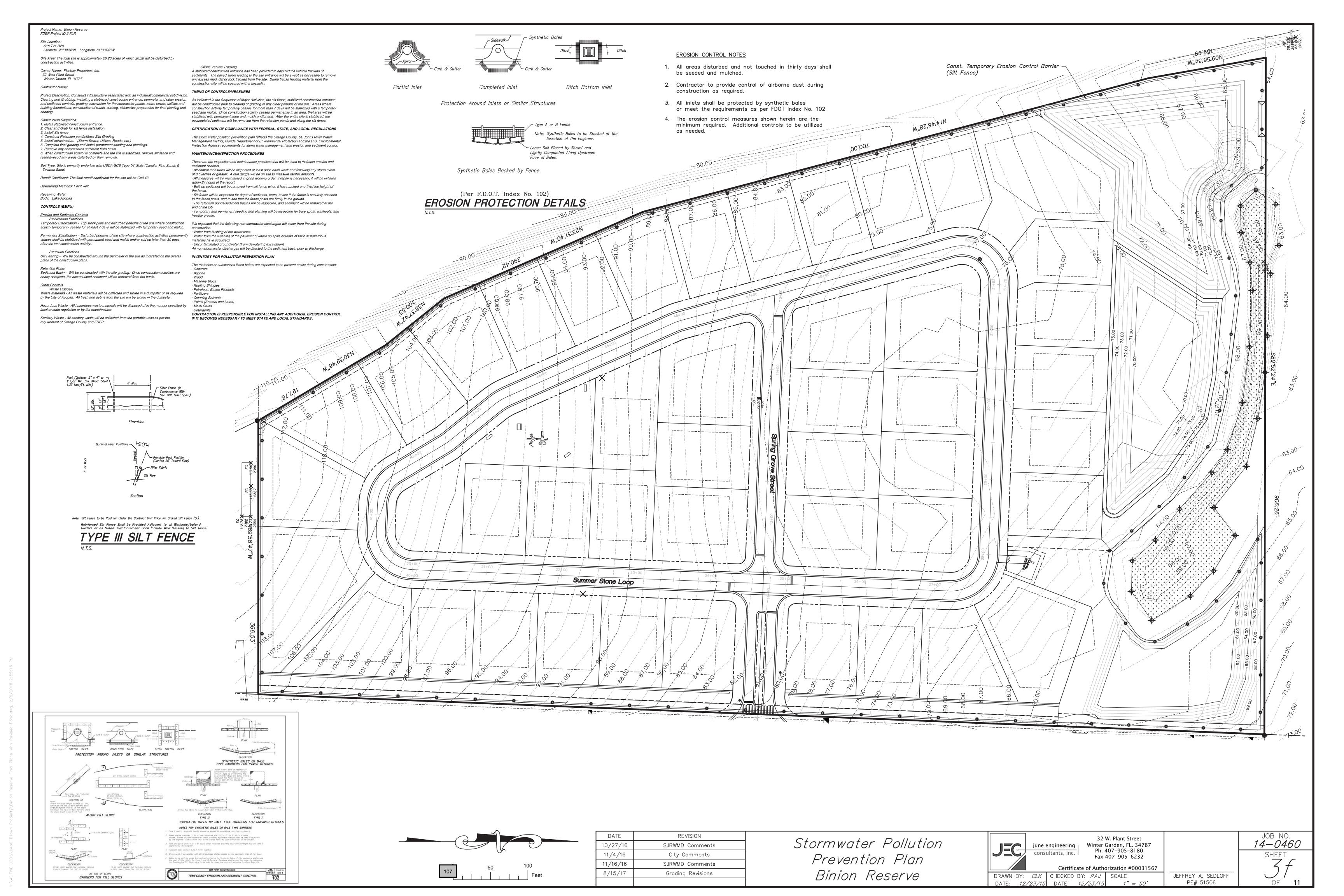


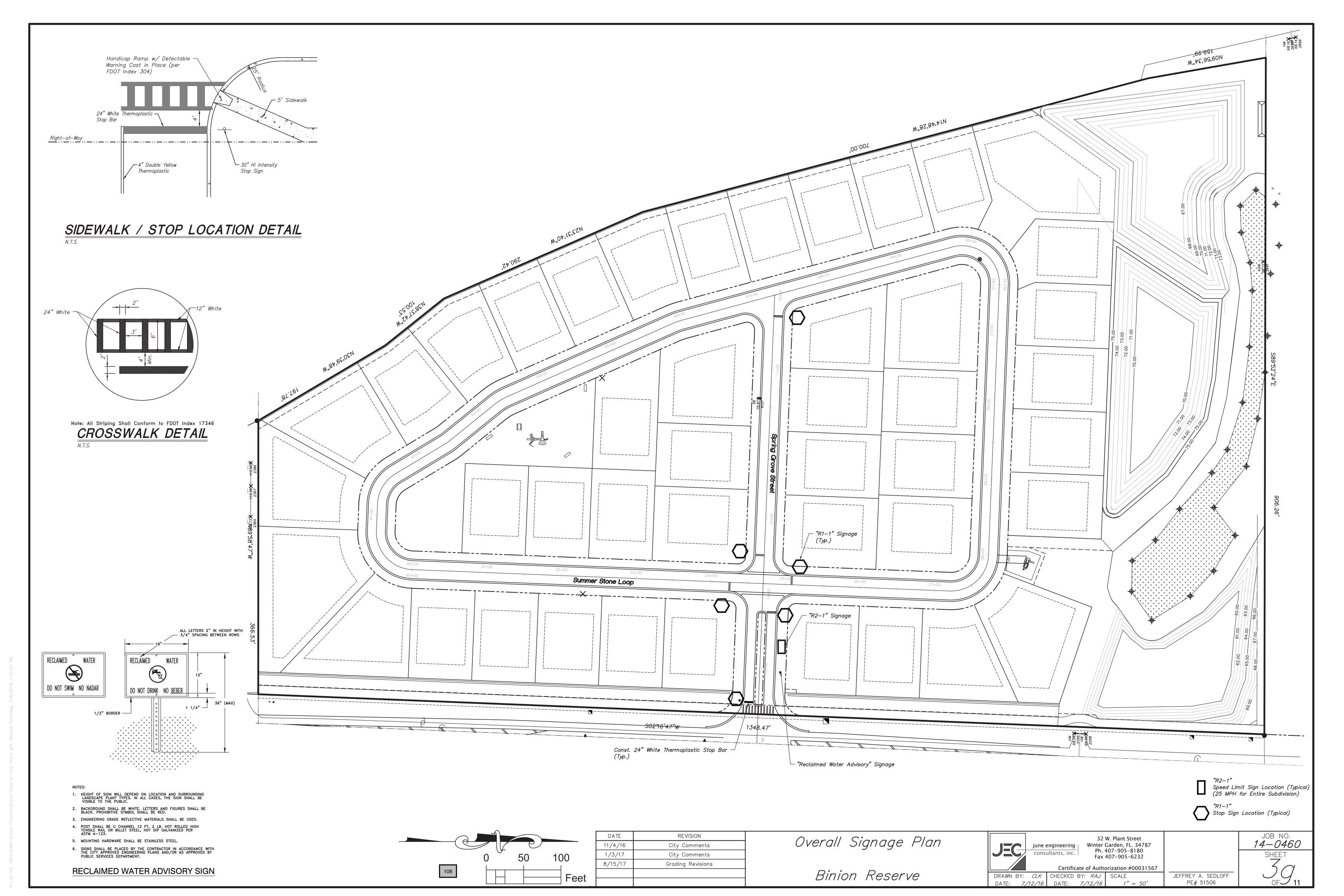
SANITARY SEWER PIPING				
<u>Pipe Run</u>	<u>Length (Ft)</u>	<u>Size &amp; Material</u>	Slope (%)	
A to B	136	8" PVC (SDR 35)	3.42	
B to C	200	8" PVC (SDR 35)	3.56	
C to D	230	8" PVC (SDR 35)	3.48	
D to E	270	8" PVC (SDR 35)	1.09	
E to F	49	8" PVC (SDR 35)	0.40	
F to J	391	8" PVC (SDR 35)	0.59	
G to H	366	8" PVC (SDR 35)	4.14	
H to I	392	8" PVC (SDR 35)	2.32	
I to J	40	8" PVC (SDR 35)	0.40	
K to D	182	8" PVC (SDR 35)	0.40	
J to LS	54	8" PVC (SDR 14)	1.00	

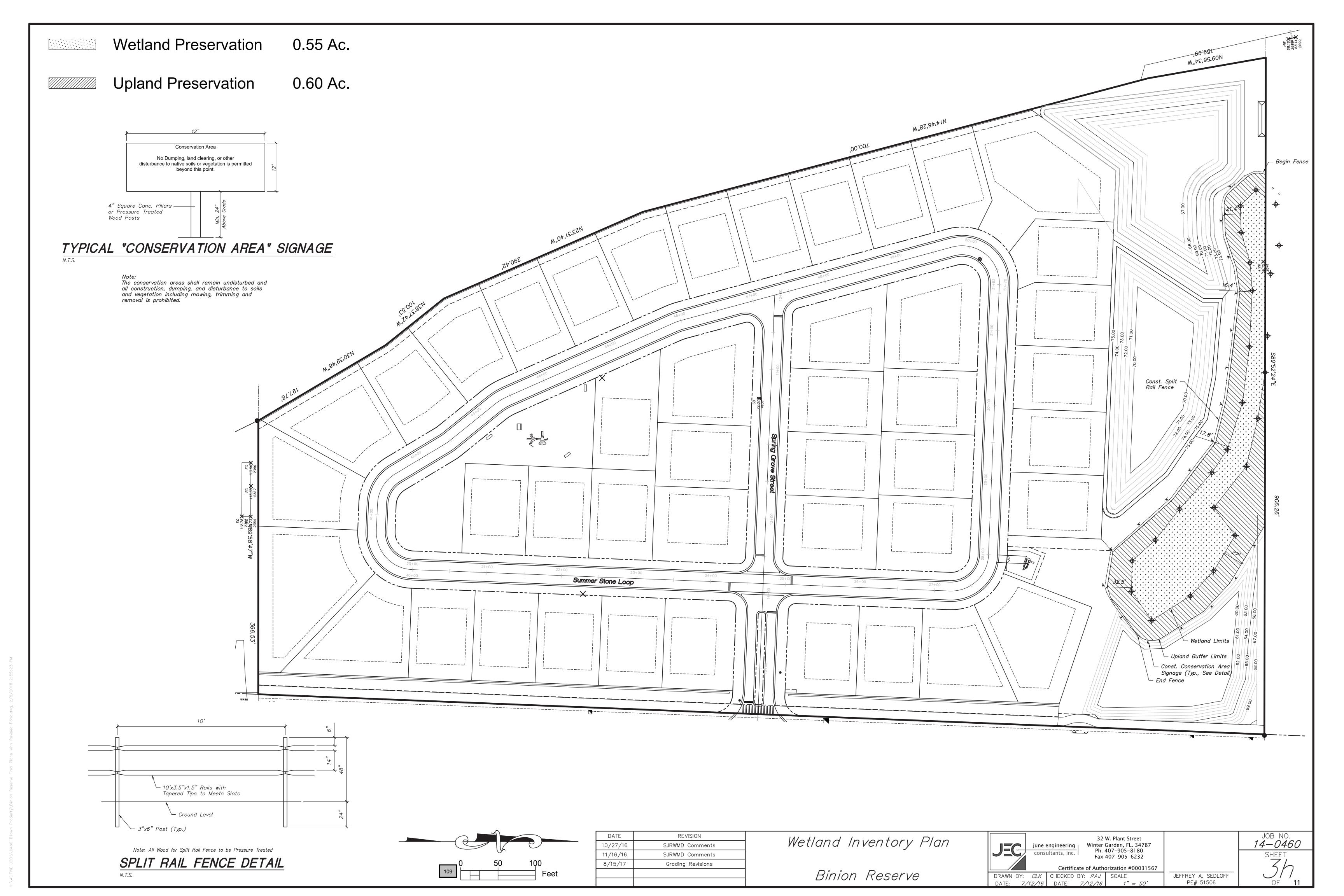


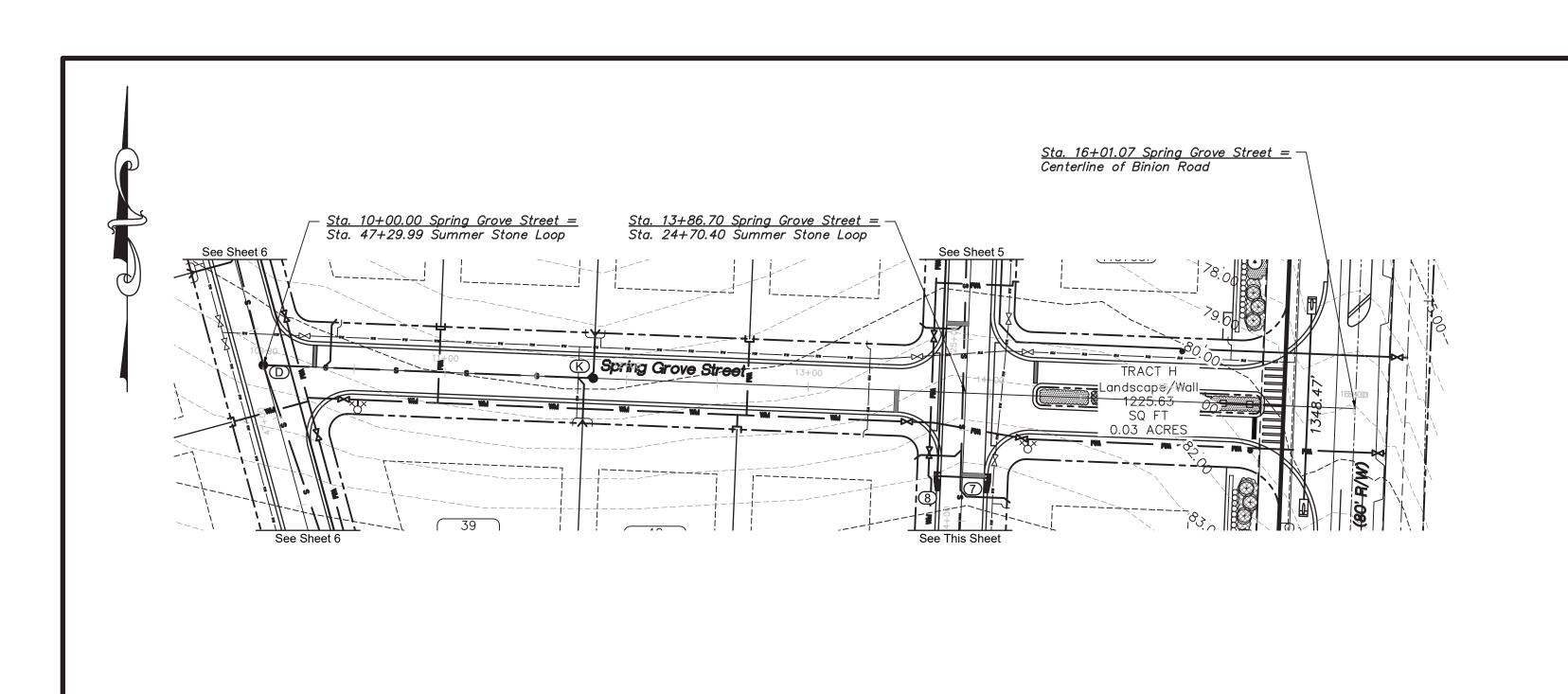
DATE: 7/12/16

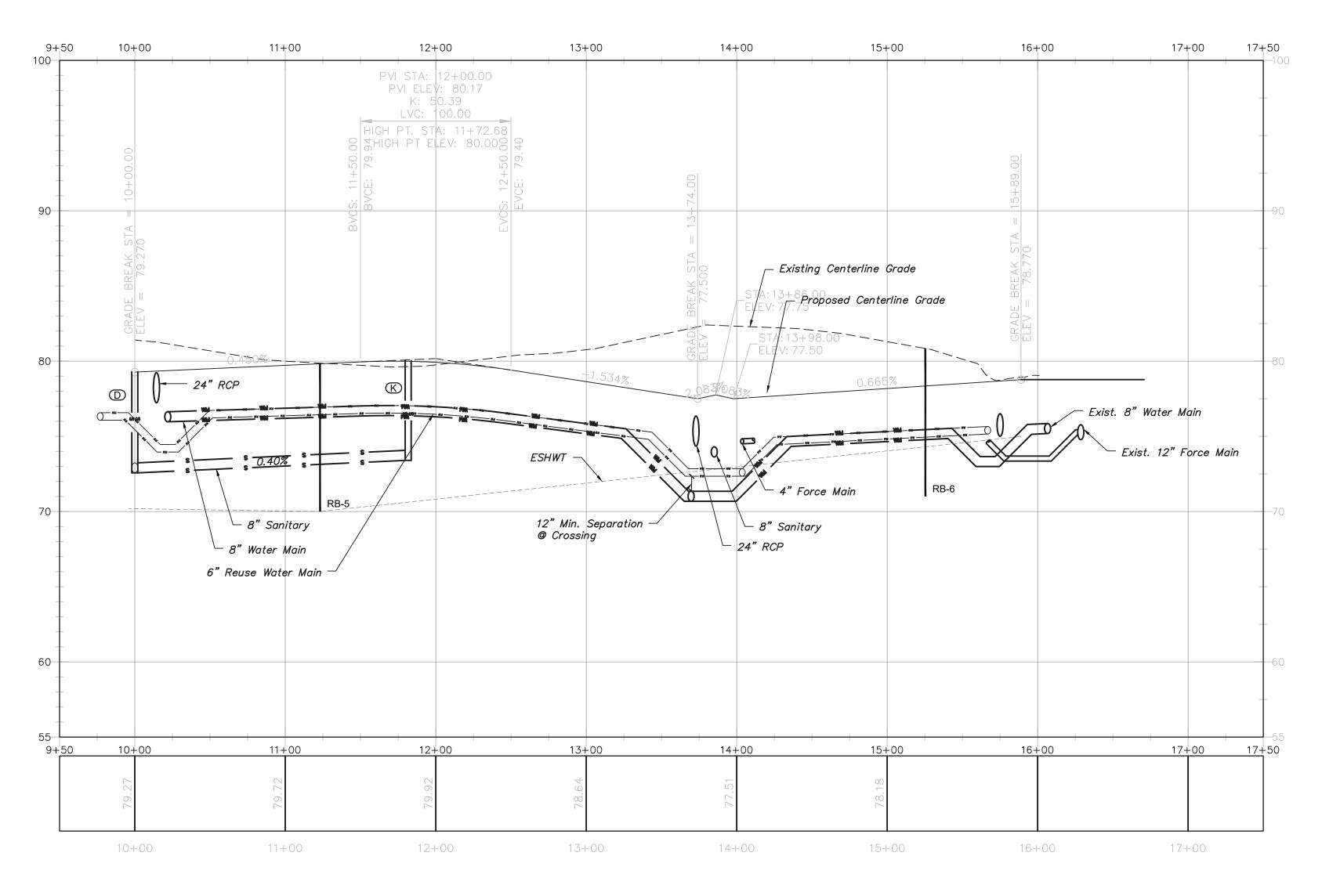
Note: The minimum slope of sanitary pipes shall be 0.32%. If minimum slopes are not attained during construction, the mains may have to be relaid (depending on the constructed slope) or the responsible party shall concur in writing to provide any additional maintenance and/or repairs that may result from these reduced slopes.

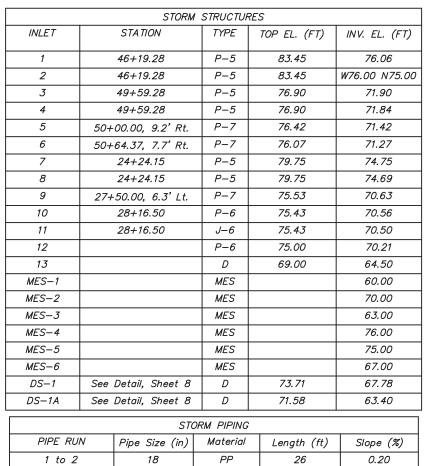












DS-1A	See I	Detail, Sheet 8	D	71.58	63.40
		STO	DRM PIPING	·	
PIPE RUN	<i>'</i>	Pipe Size (in)	Material	Length (ft)	Slope (%)
1 to 2		18	PP	26	0.20
2 to 4		24	PP	372	0.85
3 to 4		18	PP	26	0.20
4 to 5		24	PP	37	1.13
5 to 6		24	PP	54	0.28
6 to 10		24	PP	353	0.20
7 to 8		18	PP	26	0.20
8 to 9		24	PP	318	1.28
9 to 11		24	PP	65	0.20
10 to 11		24	PP	26	0.20
11 to 12		30	PP	142	0.20
12 to MES-	-2	30	PP	102	0.20
13 to MES-	-1	36	PP	28	0.20
DS-1A to ME	S-3	18	PP	40	1.00
MES-4 to ME		18	PP	100	1.00
DS-1 to MES	5–6	36	PP	78	1.00

19+50

21+00

IJ LO MES-	-1   30		20   0.20		
DS-1A to ME	S-3 18	PP	40	1.00	┑
MES-4 to ME	S-5 18	PP	100	1.00	٦
DS-1 to MES	5–6 36	PP	78	1.00	٦
	F	PP – Polypropylen	e		7
					٦
	SANITA	ARY SEWER STRU	CTURES		
<u>Manhole</u>	<u>Station</u>	Top El.(ft)	Inv. El. (ft)		
A	41+64.00	99.44	N 92.	44	
В	43+00.00	94.79	S 87.79 N 87.69		1
С	45+00.00	87.57	S 80.57 N 80.67		1
D	47+30.00	79.27	E, S 72.67	N 72.57	1
Ε	50+00.00	76.52	S 69.62 N	69.52	1
F	50+55.86	76.26	SW 69.32 E 69.22		7
G	40+16.00	98.49	N 91.49		7
Н	23+50.00	83.24	S 76.34 N	76.24	٦

*75.74* 

S 66.46 N 67.06

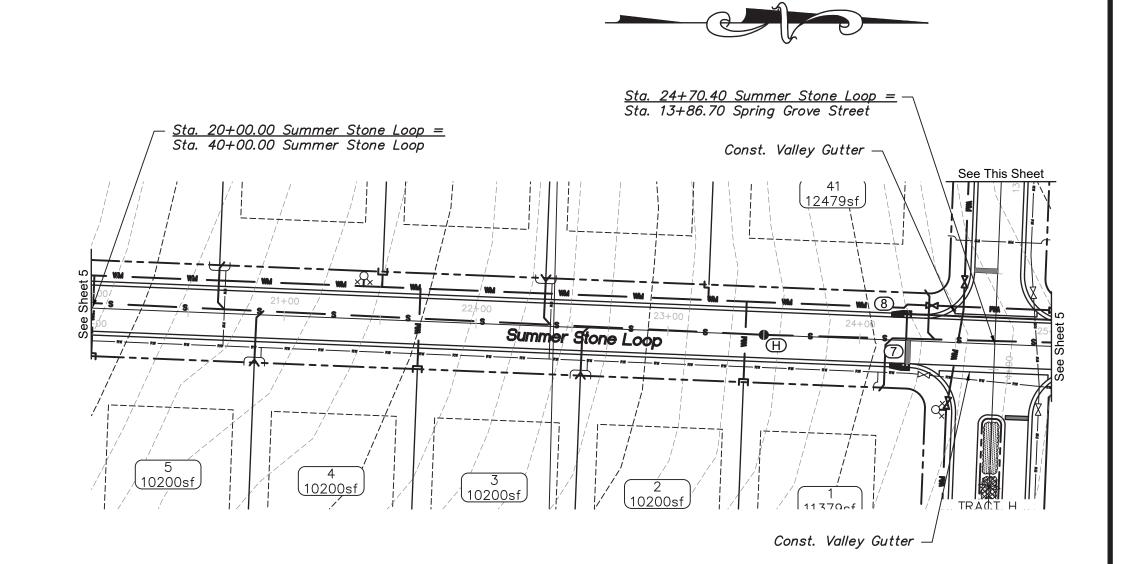
W, E 66.90 N 66.80

		ı			
Lift Station	27+96.42, 52.9' Rt.	7   600		See	Sheet 10
	SAI	VITARY	SEWER PIF	PING	
Pipe Run	Length (F	<u>-t)</u>	Size &	<u> Material</u>	Slope (%)
A to B	136		8" PVC	(SDR 35)	3.42
B to C	200	200		8" PVC (SDR 35)	
C to D	230	230		8" PVC (SDR 35)	
D to E	270	270		8" PVC (SDR 35)	
E to F	49	49		8" PVC (SDR 35)	
F to J	391		8" PVC (SDR 35)		0.59
G to H	366		8" PVC (SDR 35)		4.14
H to I	392		8" PVC (SDR 35)		2.32
I to J	40	40		8" PVC (SDR 35)	
K to D	182	182		8" PVC (SDR 35)	
J to LS	54	54		(SDR 14)	1.00

27+43.49

11+81.70

27+90.22 75.32



23+00

24+00

25+

22+00

110 + OC - OC		
GRADE BREAK STA	Existing Centerline Grade  — Proposed Centerline Grade	PVI STA: 24+70.0 PVI ELEV: 77.75 K: 26.66 LVC: 100.00
G		A = 23+50.00 BVCS: 24+20.00 BVCE: 80.04
90	-4.169 <sub>%</sub>	RADE BREAK STA
80	RB-7	H 4.575%
	ESHWT — 8" Sanita	B" Water Main
70		6" Reuse Water Main
55		

DATE REVISION 11/4/16 City Comments 6/21/17 City Comments 8/15/17 Grading Revisions

Plan & Profile

Binion Reserve

20+00

DRAWN BY: CLK CHECKED BY: RAJ SCALE

22+00

DATE: 7/12/16

21+00

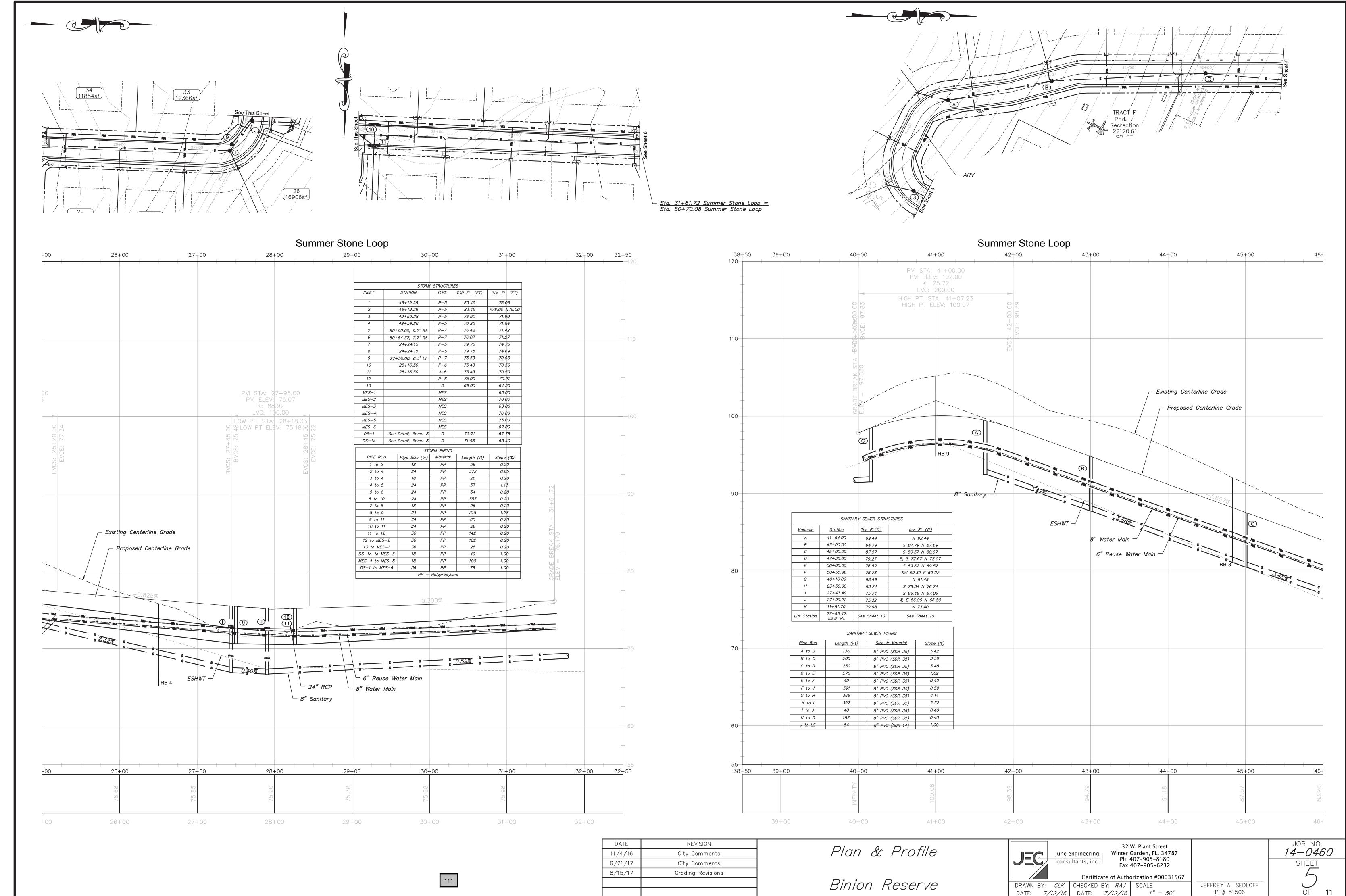
32 W. Plant Street Winter Garden, FL. 34787 Ph. 407–905–8180 Fax 407–905–6232 Certificate of Authorization #00031567

23+00

JOB NO. 14-0460 SHEET JEFFREY A. SEDLOFF

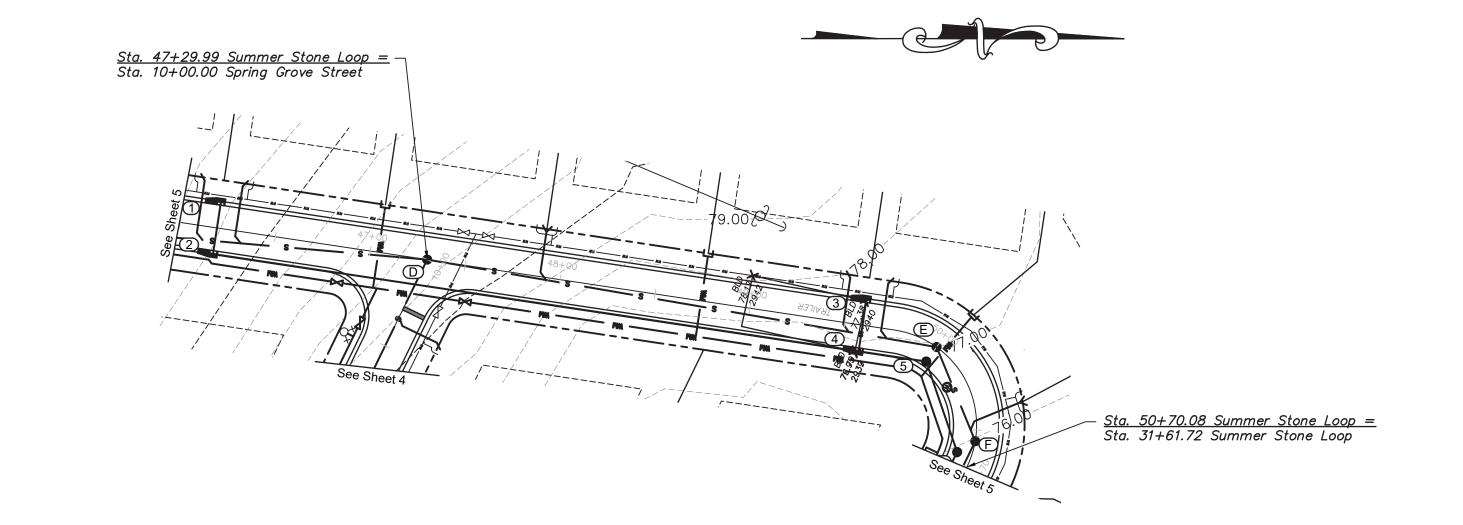
24+00

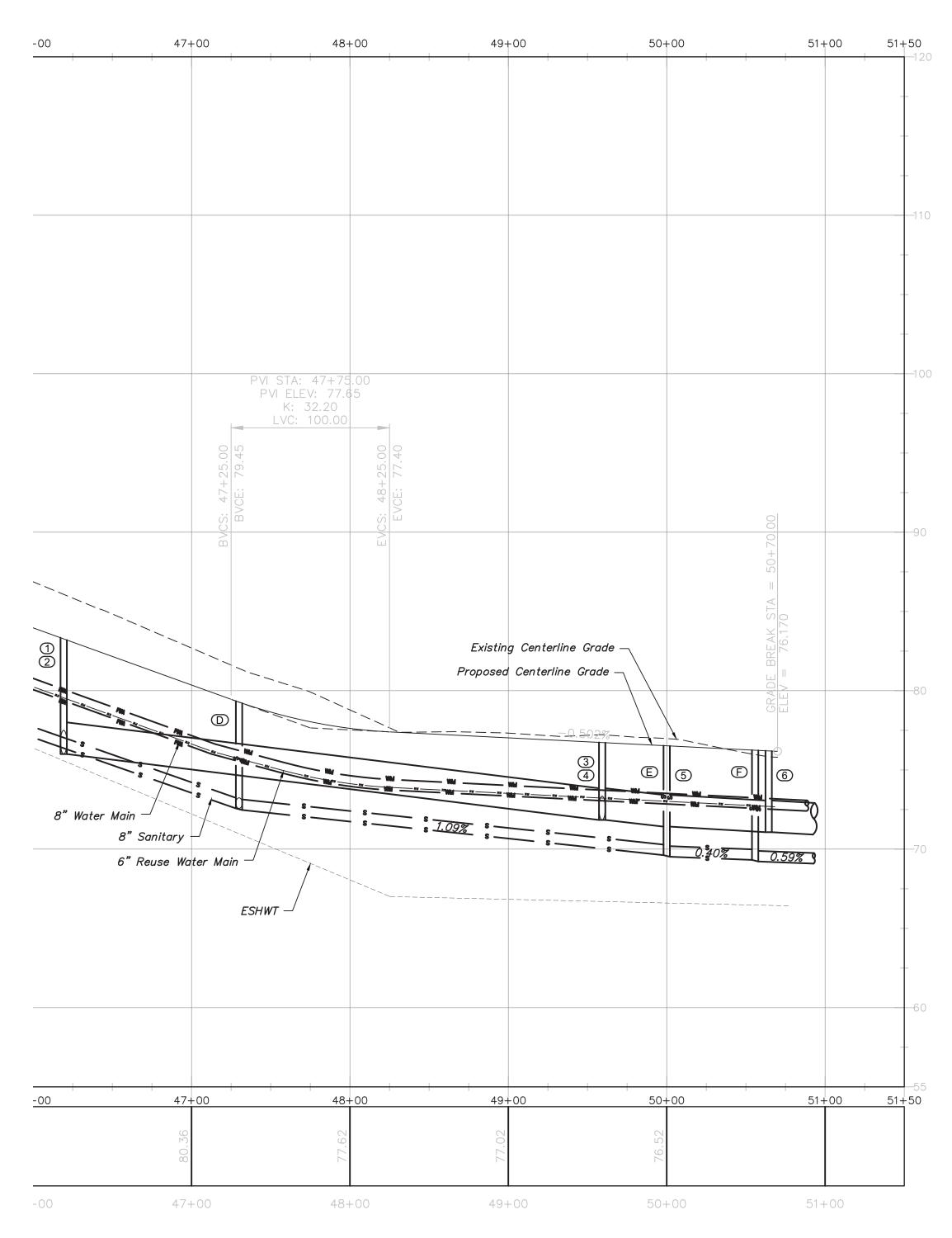
PE# 51506



K:\ACTIVE JOBS\0460 Brown Property\Binion Reserve Final Plans with Revised Pond.dwg, 2/8/2018 2:55:41







	STORM	STRUCTU	DEC.	
	-		1	
INLET	STATION	TYPE	TOP EL. (FT)	INV. EL. (FT)
1	46+19.28	P-5	83.45	76.06
2	46+19.28	P-5	83.45	W76.00 N75.00
3	49+59.28	P-5	76.90	71.90
4	49+59.28	P-5	76.90	71.84
5	50+00.00, 9.2' Rt.	P-7	76.42	71.42
6	50+64.37, 7.7' Rt.	P-7	76.07	71.27
7	24+24.15	P-5	79.75	74.75
8	24+24.15	P-5	79.75	74.69
9	27+50.00, 6.3' Lt.	P-7	75.53	70.63
10	28+16.50	P-6	75.43	70.56
11	28+16.50	J-6	75.43	70.50
12		P-6	75.00	70.21
13		D	69.00	64.50
MES-1		MES		60.00
MES-2		MES		70.00
MES-3		MES		63.00
MES-4		MES		76.00
MES-5		MES		75.00
MES-6		MES		67.00
DS-1	See Detail, Sheet 8	D	73.71	67.78
DS-1A	See Detail, Sheet 8	D	71.58	63.40

	STO	ORM PIPING		
PIPE RUN	Pipe Size (in)	Material	Length (ft)	Slope (%)
1 to 2	18	PP	26	0.20
2 to 4	24	PP	372	0.85
3 to 4	18	PP	26	0.20
4 to 5	24	PP	37	1.13
5 to 6	24	PP	54	0.28
6 to 10	24	PP	353	0.20
7 to 8	18	PP	26	0.20
8 to 9	24	PP	318	1.28
9 to 11	24	PP	65	0.20
10 to 11	24	PP	26	0.20
11 to 12	30	PP	142	0.20
12 to MES-2	30	PP	102	0.20
13 to MES-1	36	PP	28	0.20
DS-1A to MES-3	18	PP	40	1.00
MES-4 to MES-5	18	PP	100	1.00
DS-1 to MES-6	36	PP	<i>78</i>	1.00
	PP -	Polypropylen	e	•

SANITARY SEWER STRUCTURES								
<u>Manhole</u>	<u>Station</u>	Top El.(ft)	Inv. El. (ft)					
Α	41+64.00	99.44	N 92.44					
В	43+00.00	94.79	S 87.79 N 87.69					
С	45+00.00	87.57	S 80.57 N 80.67					
D	47+30.00	79.27	E, S 72.67 N 72.57					
Ε	50+00.00	76.52	S 69.62 N 69.52					
F	50+55.86	76.26	SW 69.32 E 69.22					
G	40+16.00	98.49	N 91.49					
Н	23+50.00	83.24	S 76.34 N 76.24					
1	27+43.49	75.74	S 66.46 N 67.06					
J	27+90.22	75.32	W, E 66.90 N 66.80					
Κ	11+81.70	79.98	W 73.40					
ift Station	27+96.42, 52.9' Rt.	See Sheet 10	See Sheet 10					

SANITARY SEWER PIPING								
<u>Pipe Run</u>	Length (Ft)	<u>Size &amp; Material</u>	Slope (%)					
A to B	136	8" PVC (SDR 35)	3.42					
B to C	200	8" PVC (SDR 35)	3.56					
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D to E	270	8" PVC (SDR 35)	1.09					
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K to D	182	8" PVC (SDR 35)	0.40					
J to LS	54	8" PVC (SDR 14)	1.00					

DATE REVISION 11/4/16 City Comments 6/21/17 City Comments 8/15/17 Grading Revisions

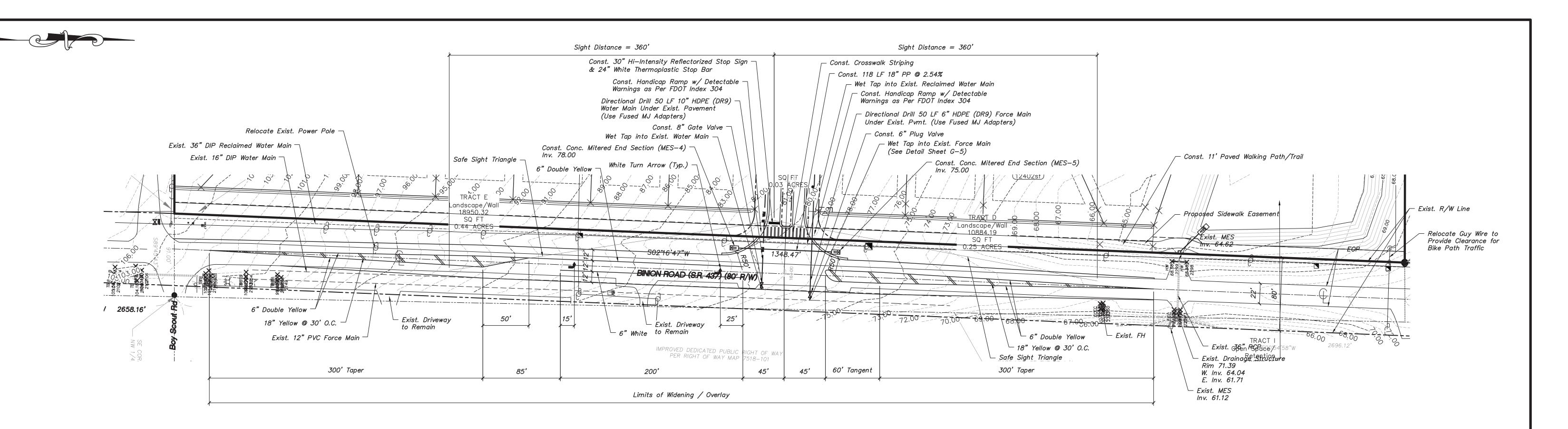
Plan & Profile Binion Reserve



32 W. Plant Street Winter Garden, FL. 34787 Ph. 407–905–8180 Fax 407–905–6232

Certificate of Authorization #00031567 DRAWN BY: *CLK* CHECKED BY: *RAJ* SCALE

DATE: 7/12/16 DATE: 7/12/16 1" = 50' JEFFREY A. SEDLOFF PE# 51506 JOB NO. 14-0460 SHEET





1. All striping shall conform to FDOT index No. 17346 and shall be thermoplastic with reflective pavement markers.

2. Turn lanes were designed based on a design speed of 45mph.

3. Use FDOT Index 526, Sheet 2 of 8 for roadway transitions, design speed = 45mph, center widening.

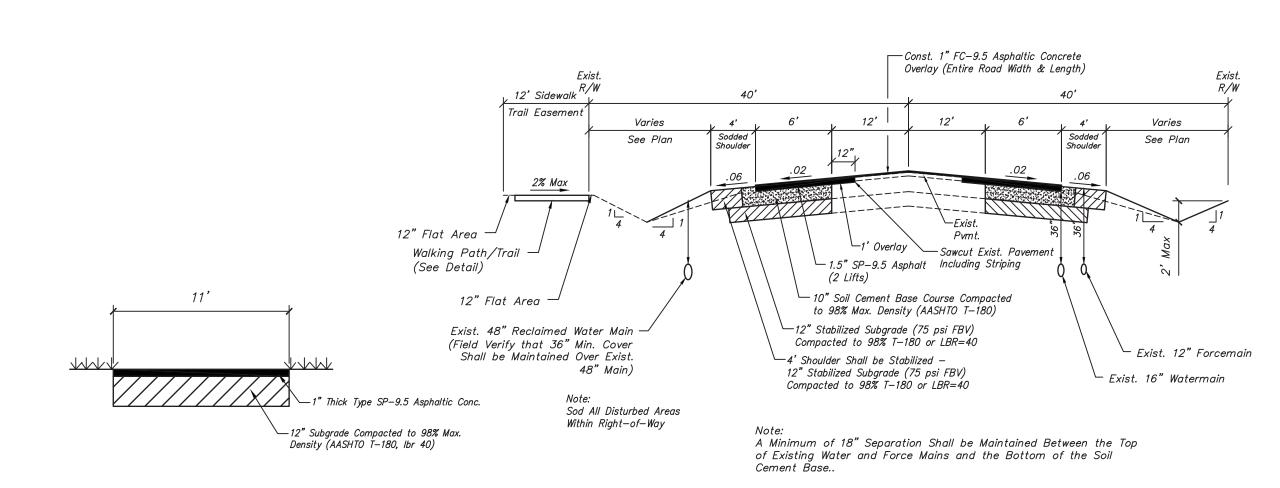
4. Use FDOT Index 301 for turn lanes, design speed = 45mph.

5. The contractor shall locate the exact location of the existing utilities on Binion Road (CR 437) prior to construction.

permit and compliance to their standards.

6. Binion Road is operated and maintained by Orange County.
Driveway connection to Binion Road will require an Orange County

7. The Contractor Shall be Responsible for any relocate of any City of Apopka Utilities that are Found to be in Conflict with the Binion Road Right-of-Way Work Proposed for this Project.



WALKING PATH / TRAIL TYPICAL SECTION

TYPICAL PAVEMENT WIDENING SECTION

DATE REVISION

11/4/16 City Comments

12/8/16 County Comments

4/26/17 City Comments

8/15/17 Grading Revisions

Offsite Improvements

june engineering W
consultants, inc.

Certificate of

DATE: 7/12/16

DRAWN BY: CLK | CHECKED BY: RAJ | SCALE

DATE: 7/12/16

32 W. Plant Street
Winter Garden, FL. 34787
Ph. 407–905–8180
Fax 407–905–6232

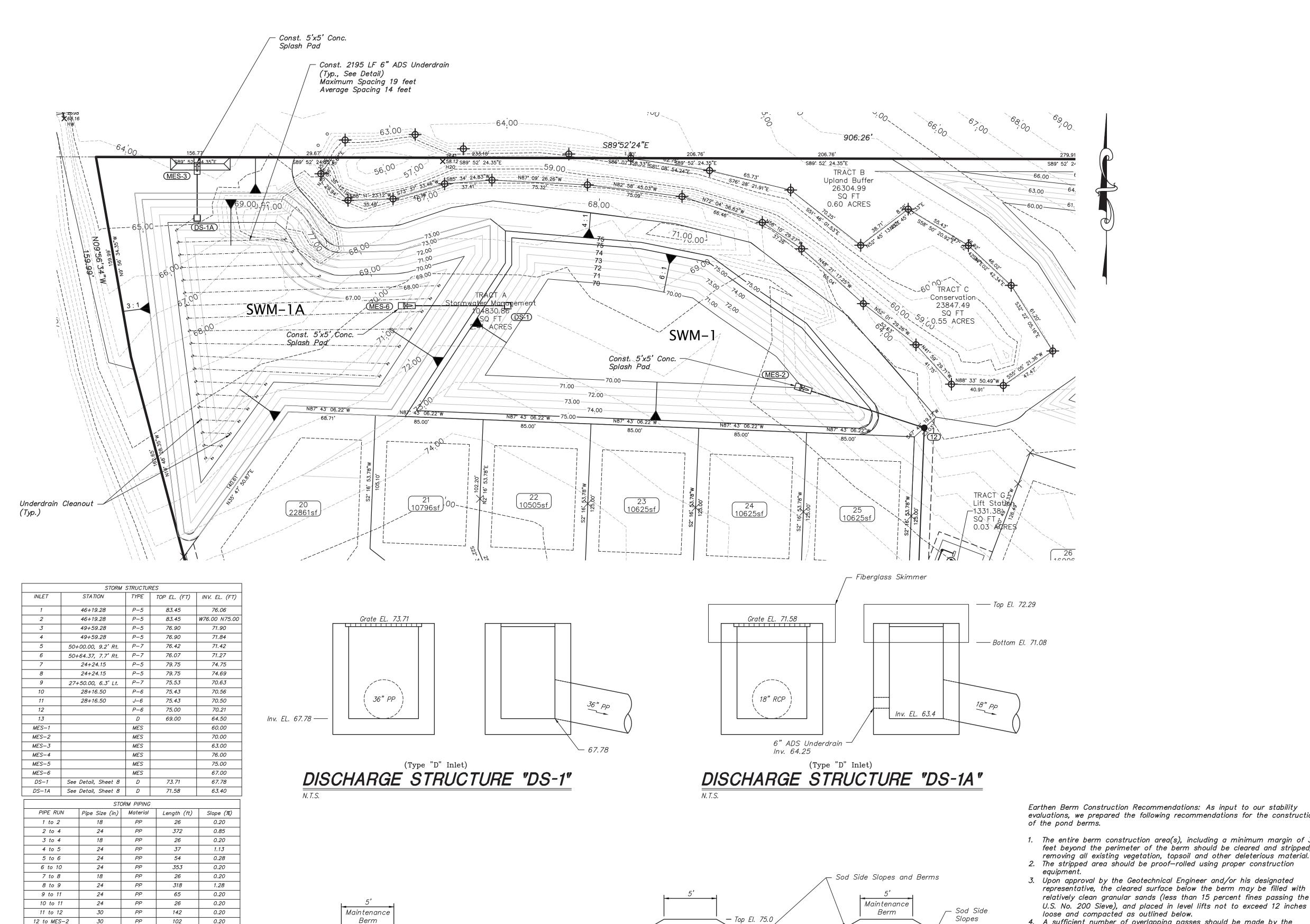
Certificate of Authorization #00031567

JOB NO. 14-0460 SHEET

JEFFREY A. SEDLOFF

PE# 51506

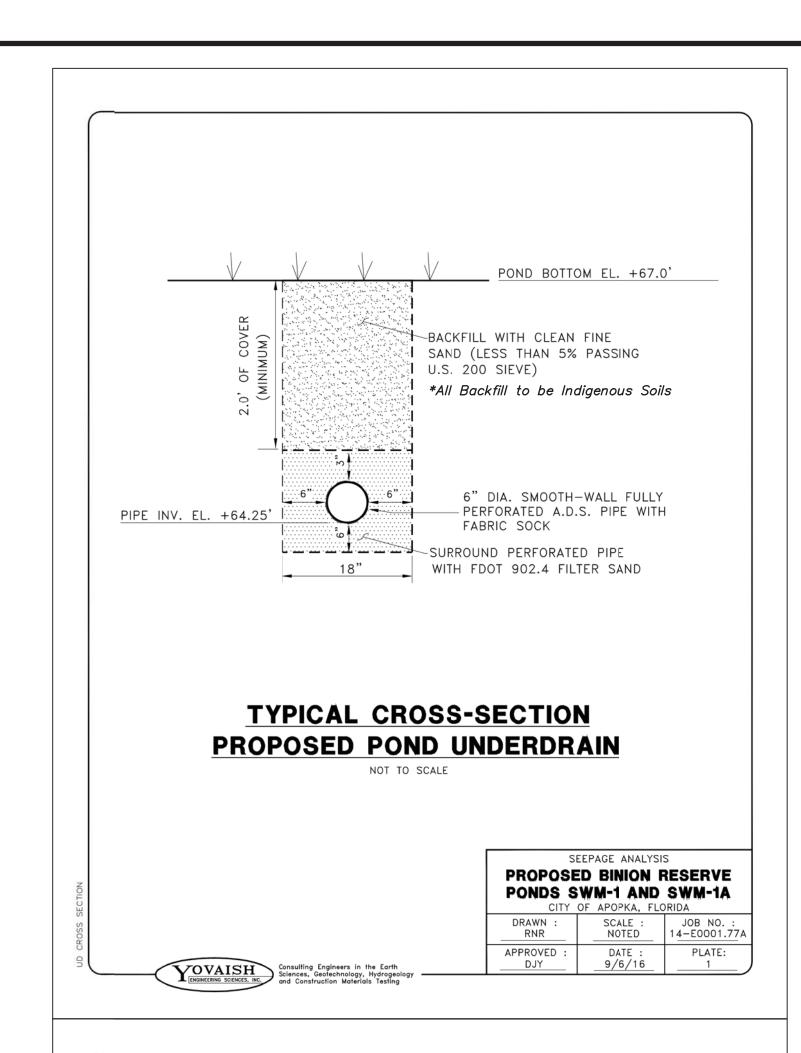
Binion Reserve

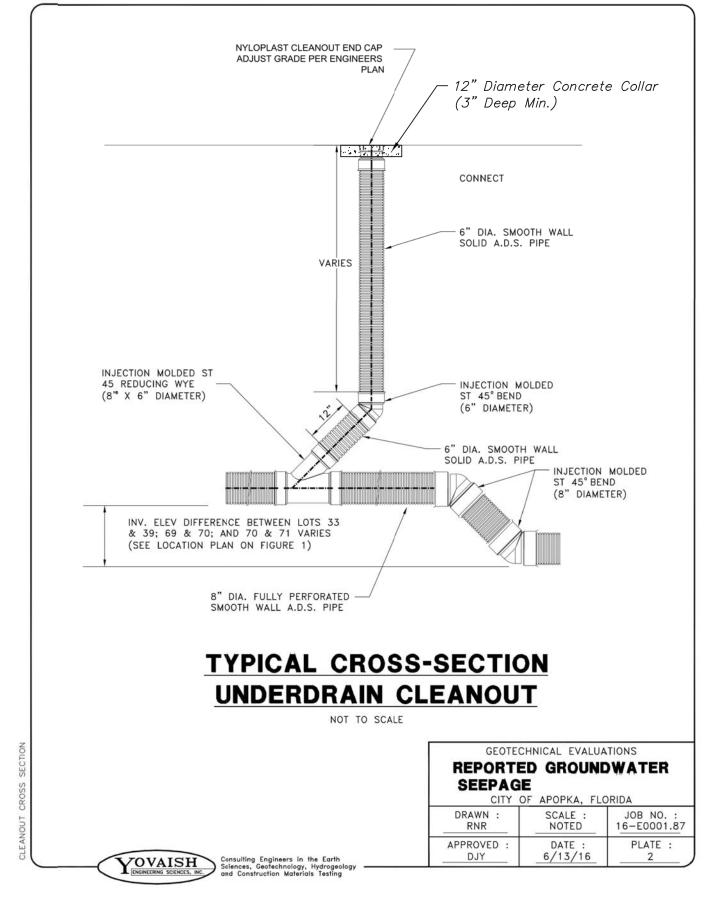


Earthen Berm Construction Recommendations: As input to our stability evaluations, we prepared the following recommendations for the construction

- 1. The entire berm construction area(s), including a minimum margin of 3 feet beyond the perimeter of the berm should be cleared and stripped; removing all existing vegetation, topsoil and other deleterious material. 2. The stripped area should be proof—rolled using proper construction
- 3. Upon approval by the Geotechnical Engineer and/or his designated representative, the cleared surface below the berm may be filled with relatively clean granular sands (less than 15 percent fines passing the
- 4. A sufficient number of overlapping passes should be made by the vibratory roller across the filled area in order to compact the fill soil to a minimum density equivalent to 95 percent of the soil's Maximum Modified Proctor Density Value (ASTM D-1557).
- 5. Once the berm has been filled and compacted to is design
- elevation/grades, appropriate erosion control shall be provided.

  6. A Soil Engineer from Yovaish Engineering Services, LLC, or his designated representative should inspect and test all compacted surfaces to determine that the in-place natural and fill soils are properly densified and proper documentation of the required minimum compaction criteria can be provided.





DATE REVISION 10/27/16 SJRWMD Comments 11/4/16 City Comments 12/20/16 SJRWMD Comments

Seed & Mulch Bottom

City Comments

Grading Revisions

Bottom El. 70.0

SHGWT (± El. 67.0)

1/3/17

8/15/17

Stormwater Management

june engineering Certificate of Authorization #00031567

DATE: 7/12/16

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DATE: 7/12/16

32 W. Plant Street Winter Garden, FL. 34787 Ph. 407-905-8180 Fax 407-905-6232

JOB NO. 14-0460 SHEET JEFFREY A. SEDLOFF OF **11** PE# 51506

— Bottom El. 67.0

SHGWT (± El. 64.0)

TYPICAL POND SECTION

Binion Reserve

———— Peak Stage (25yr24hr) 71.79

Sod Side Slopes

to Water Line

Pond Area Shall be Undercut 3.0 Feet Below Pond Bottom Elevation and Replaced with In situ Clean Permeable Fine Sands (Less than

5% Passing No. 200 Sieve).

0.20

1.00

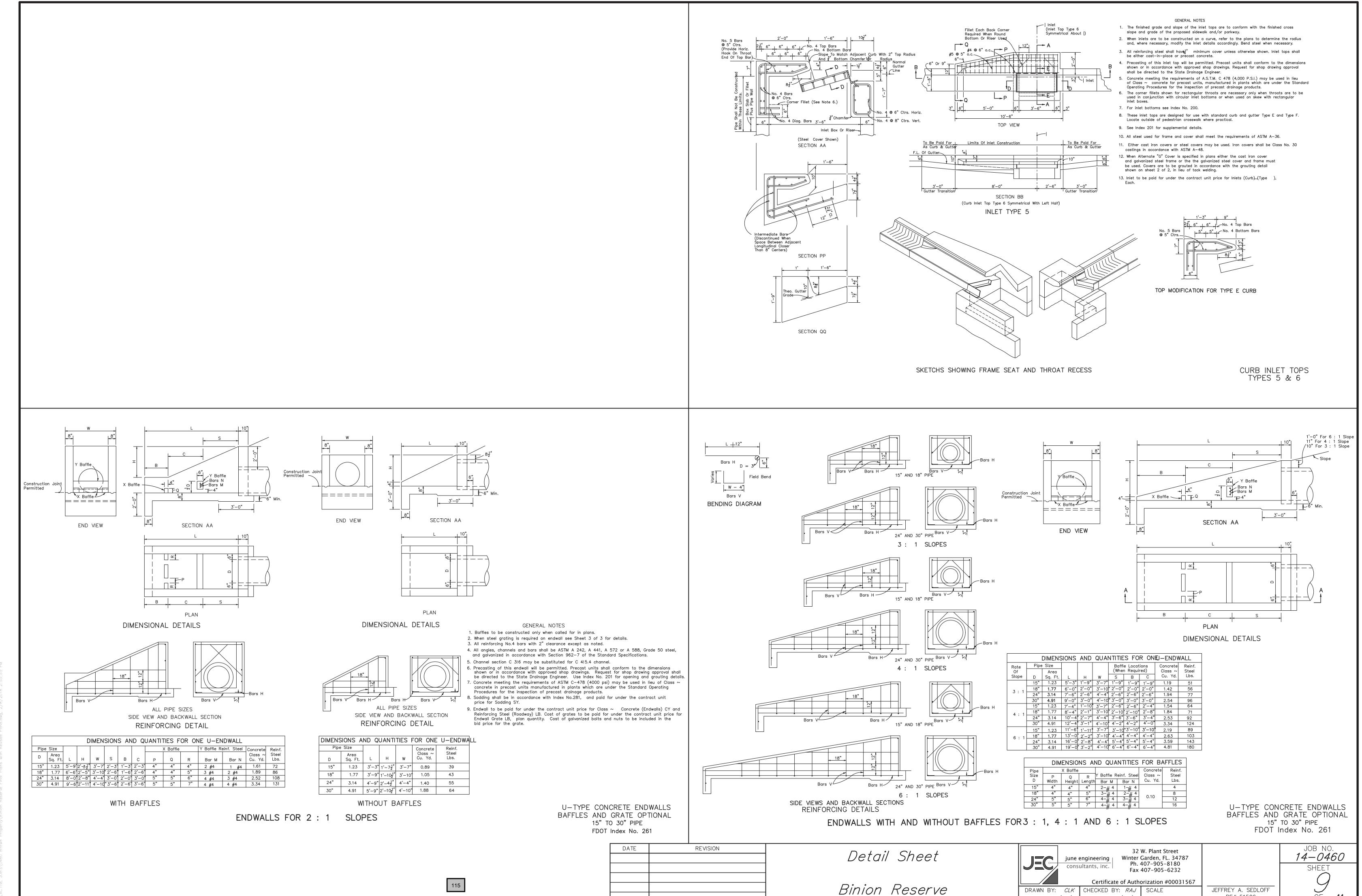
1.00

13 to MES-1

DS-1A to MES-3

MES-4 to MES-5

PP - Polypropylene

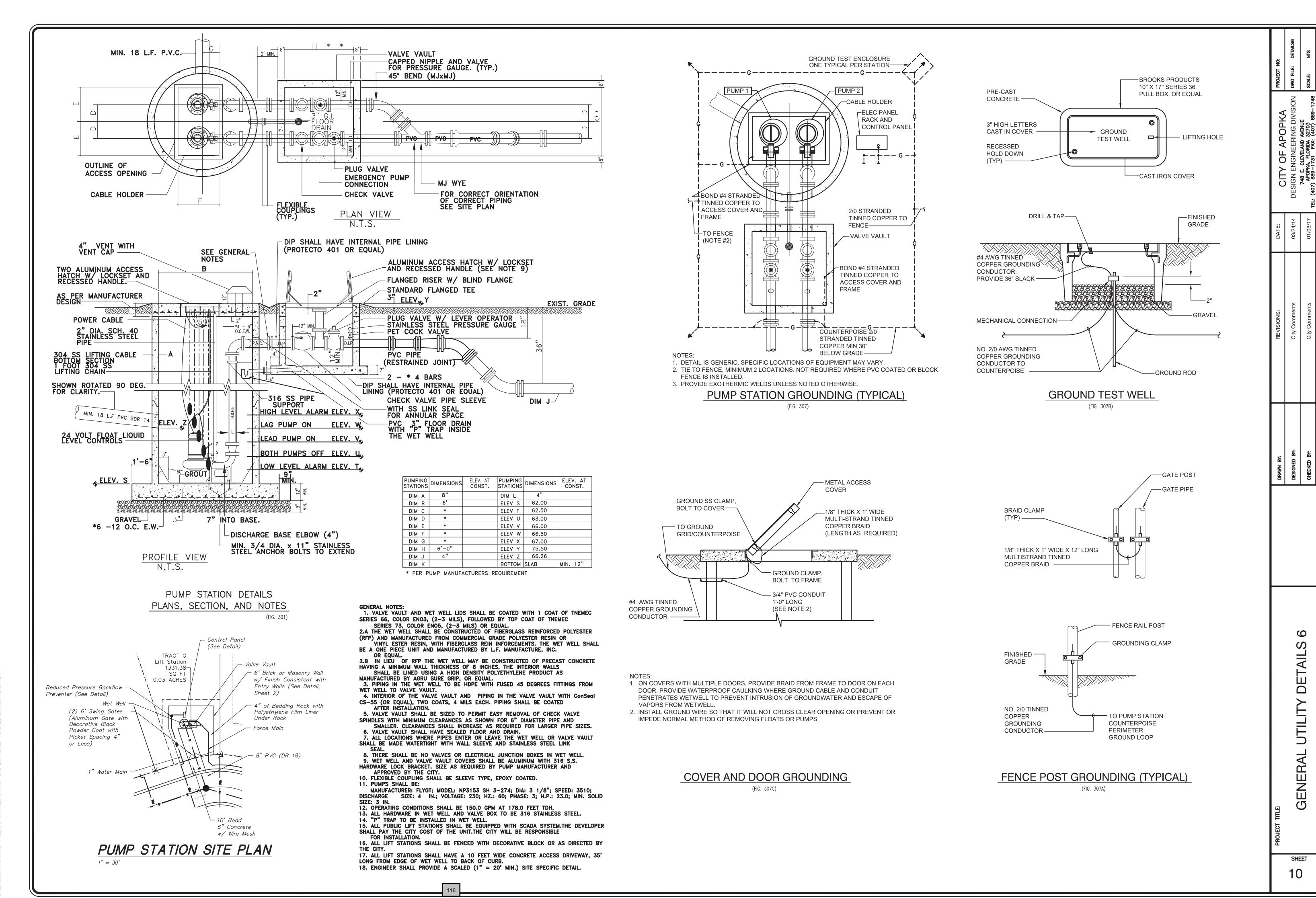


OF

PE# 51506

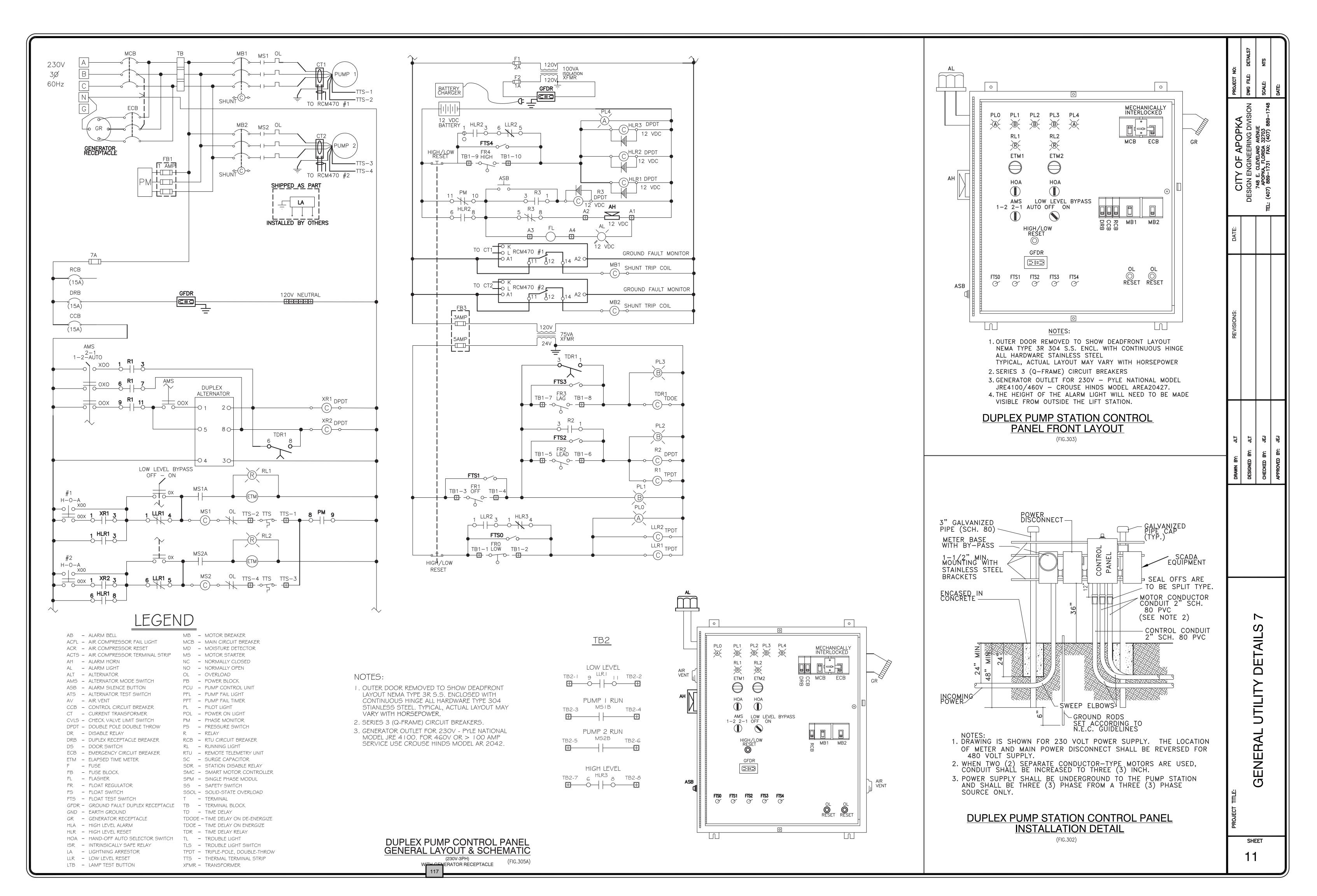
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DATE: 7/12/16



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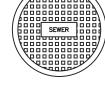


:\ACTIVE JOBS\0460 Brown Property\Binion Reserve Final Plans with Revised Pond.dwg, 2/8/2018 2:56:04

PLUG VALVE AND BOX DETAIL

2. COME UP TO 4 FOOT DEPTH BELOW FINISHED GRADE.

RECLAIMED WATER



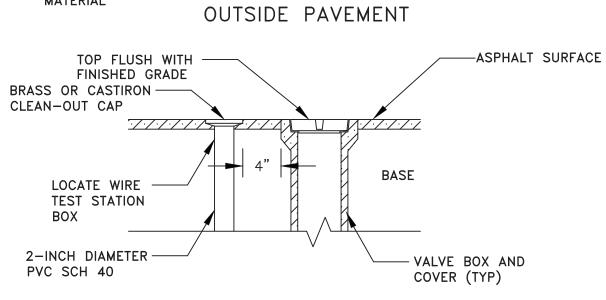




SEWER

POTABLE WATER

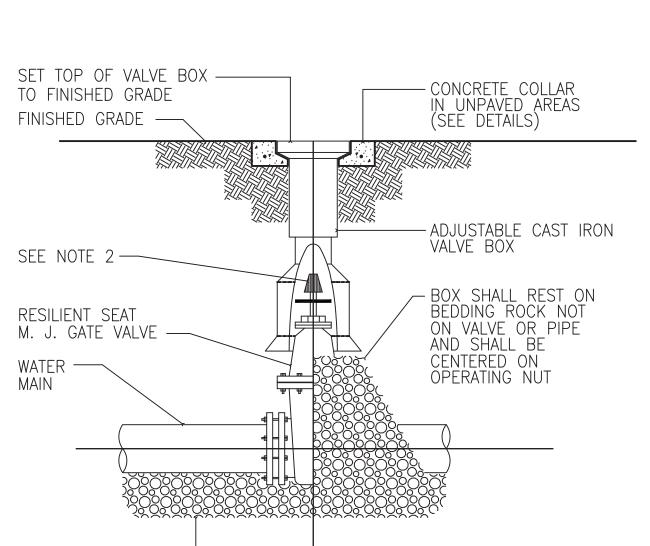
18" X 18" SQARE (ROUND --TEST STATION OPTIONAL) CONCRETE OR POLYMER PAD TYP EACH VALVE BOX APPLICABLE VALVE -BOX AND COVER (TYP) (SEE FIG. 116) -#4 REBARS ALL AROUND POLYMER MIX MATERIAL



INSIDE PAVEMENT

VALVE IDENTIFICATION TAG TO BE INSTALLED BY CITY & PAID FOR BY DEVELOPER

> VALVE BOX DETAIL (FIG. 109)

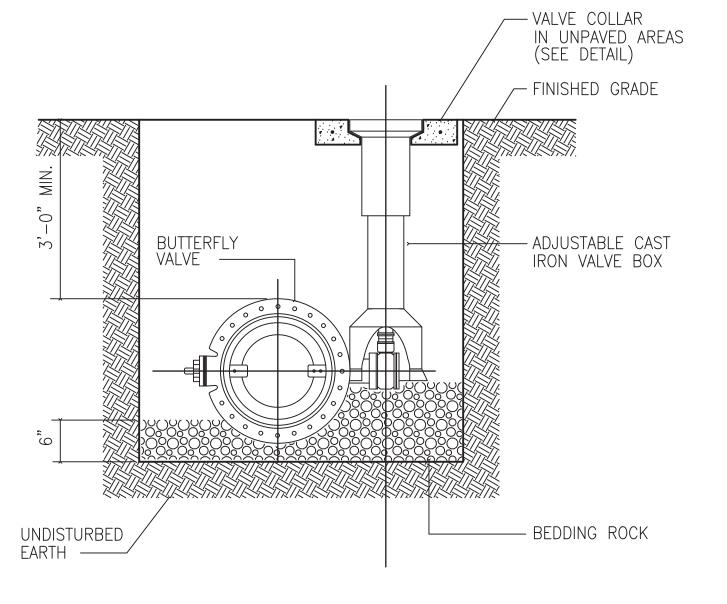


6" BEDDING ROCK

1. PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION. 2. THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO COME UP TO 4 FOOT DEPTH BELOW FINISHED GRADE. 3. APPLY TWO COATS OF EXTERIOR ENAMEL PAINT TO VALVE COVER

> PURPLE - RECLAIMED WATER GREEN - SEWER BLUE - POTABLE WATER

GATE VALVE, COVER AND BOX DETAIL (FIG. 400)



1. 18" MINIMUM CLEARANCE FOR WATER, SEWER AND RECLAIMED WATER MAIN CROSSINGS

FINISH GRADE -

2. 12" MINIMUM CLEARANCE REQUIRED FOR OTHER TYPE UTILITY CROSSINGS.

3. SEE SPECIFICATION SHEET, NOTE 21A AND 21B IF MINIMIN

VERTICAL OR HORZIONAL CLEARANCE CAN NOT BE MAINTAINED.

1. PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.

2. ALL WATER SHUT-OFF VALVES SIXTEEN (16) INCHES AND LARGER SHALL BE BUTTERFLY VALVES.

BUTTERFLY VALVE AND BOX DETAIL (FIG. 401)

UTILITY CROSSING PIPE DEFLECTION DETAIL

OBSTRUCTION PIPE -

GENERAL NOTES: 1. BASE REPLACEMENT SHALL BE 3000 psi HIGH EARLY STRENGTH CONCRETE. 2. ASPHALTIC CONCRETE SURFACE MATERIAL

- CENTER A FULL LENGTH OF DIP PIPE AT THE POINT OF CROSSING

SHALL BE REPLACED WITH THE SAME TYPE OF MATERIAL AT THE TIME OF REMOVAL. 3. MINIMUM ASPHALTIC CONCRETE SURFACE OVERLAY THICKNESS SHALL BE ONE INCH (1"). 4. ALL JOINT CUTS SHALL BE MECHANICALLY

PAVEMENT RESTORATION:

- 1. LONGITUDINAL CUTS MAY REQUIRE OVERLAY/RESURFACING OF THE COMPLETE
- WIDTH OF THE TRAVELED WAY. 2. CUTS AT INTERSECTIONS OF STREETS GENERALLY MAY REQUIRE A COMPLETE OVERLAY/RESURFACING TO THE END OF ALL RETÚRN RADII. AND ALSO TO A POINT TEN FEET (10') BEYOND THE CUT
- WHICHEVER IS GREATER. 3. ACTUAL REQUIREMENTS WILL BE AS STATED ON THE APPROVED PERMIT.

CONCRETE REPLACEMENT



HOT PATCH

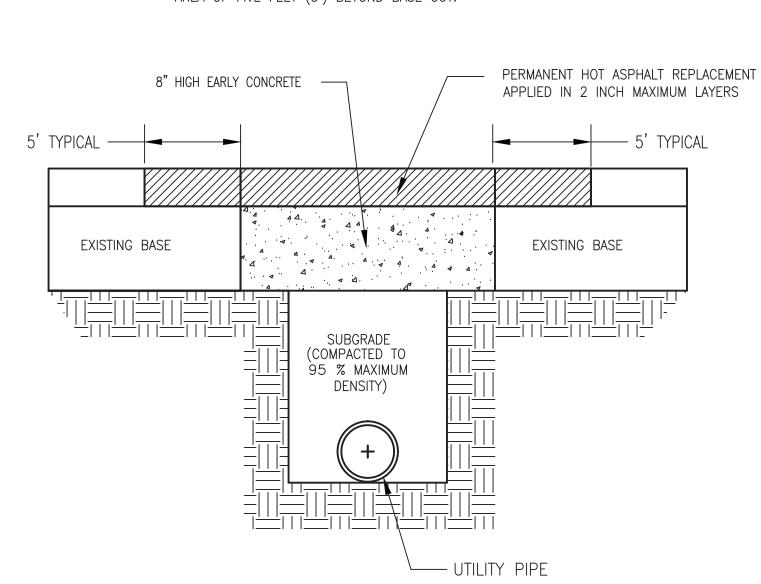
CONSTRUCT UNIFORM PIPE DEFLECTION

MAXIMUM DEFLECTION PER PIPE JOINT

DISTANCE AS REQUIRED ——

NOT TO EXCEED 75% OF MANUFACTURER RECOMMENDED

NOTE: SUB-GRADE TO BE COMPACTED TO 95% MAX. DENSITY AS DETERMINED BY AASTHO T-180 CUT TO BE REPLACED WITH AN 8" 3000 PSI HIGH EARLY CONCRETE TO TOP OF EXISTING BASE. CUT AREA TO BE PLATED OR PROTECTED ON THE DAY OF POUR. EXISTING SURFACE TO BE SAW CUT TO AN AREA OF FIVE FEET (5') BEYOND BASE CUT.



STANDARD ROADWAY OPENCUT DETAIL

FINAL RESTORATION - TYPICAL OF MAJOR OPEN CUTS

G-2

SHEET

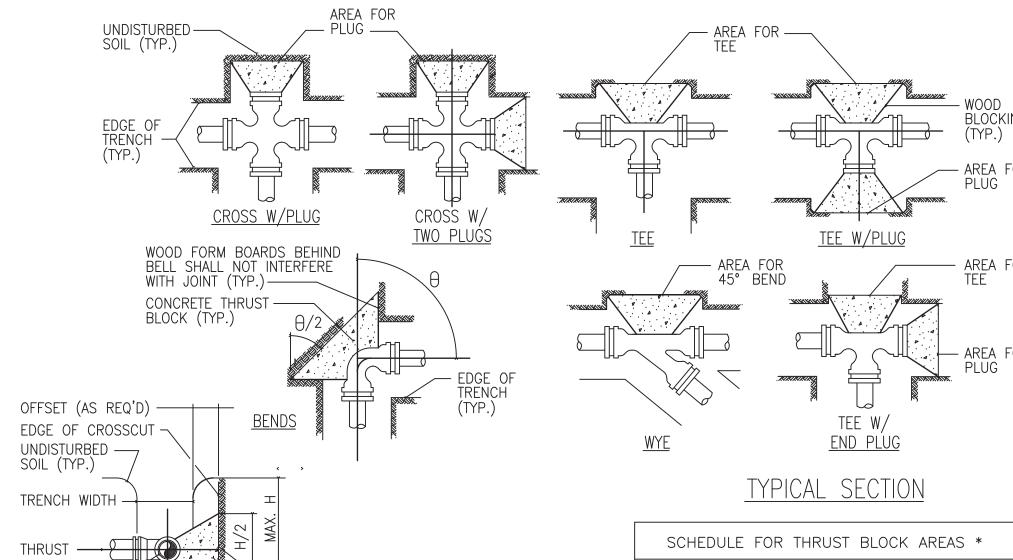
CITY OF APOPKA
ESIGN ENGINEERING DIVISIC
748 E. CLEVELAND AVENUE
APOPKA, FLORIDA 32703
407) 703-1731 FAX: (407) 703-17

AP | GE | DE | PE

S

TAIL

GENERAL



- 1. THRUST BLOCK BEARING AREAS SHALL BE POURED AGAINST UNDISTURBED MATERIAL. WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE ALL LOOSE MATERIAL AND EXTEND TO UNDISTURBED MATERIAL.
- 2. EXTEND THRUST BLOCK FULL LENGTH OF FITTINGS. JOINTS SHALL NOT BE COVERED BY THRUST BLOCKS. FITTINGS SHALL BE PROTECTED BY POLYETHYLENE FILM (8 MIL.) PRIOR TO PLACING CONCRETE THRUST BLOCK.
  3. ROUGH BLOCKING FORMS SHALL BE USED ALONG SIDES OF THRUST BLOCKS, AS REQUIRED.
- 4. THRUST BLOCKS SHALL BE USED IN COMBINATION, AS REQUIRED, TO SUITE THE SPECIFIC FITTING ARRANGEMENT. 5. ALTERNATE DESIGNED RESTRAINING SYSTEMS SHALL BE PROVIDED WHERE STANDARD THRUST BLOCKING IS NOT

SUITABLE AND/OR SOIL RESISTANCE BEARING IS LESS

THAN 1500 PSF. 6. ALL WOOD BLOCKING SHALL BE PRESSURE TREATED WITH PRESERVATIVE.

	- WOOD BLOCKING (TYP.)	
CHANNAN.	- AREA FOR PLUG	
G Managanay	AREA FOR TEE	
	- AREA FOR PLUG	

PIPE SIZE (INCHES)	90 BEND (SQ FT)	45 BEND (SQ FT)	22-1/2 BEND (SQ FT)	11-1/4 BEND (SQ FT)	TEE & PLUG (SQ FT)	DESIGN PRESS (PSI)	
4	2.60	1.40	1.00	1.00	1.80	150	
6	5.30	2.90	1.50	1.00	3.73	150	
8	9.10	4.90	2.50	1.30	6.45	150	
10	13.70	7.40	3.80	1.90	9.70	150	
12	19.40	10.50	5.30	2.70	13.70	150	
16	33.62	18.20	9.30	4.70	24.00	150	
18	42.30	22.90	11.65	5.90	29.90	150	
20	52.00	28.80	14.00	7.00	37.00	150	
24	74.00	40.00	20.40	10.30	52.30	150	
NOTE: THRUST BLOCK AREAS TO BE COMPUTED ON BASIS OF LBS. PER SQ. FT. SOIL RESTRAINT BEARING (1,500 MIN) TEST PRESSURE 150 PSIG SEE NOTE 5 CONCRETE STRENGTH = 2500 PSI IN 28 DAYS * TO BE COMPLETED BY ENGINEER.							

RECLAIMED AND POTABLE WATER MAIN THRUST BLOCK DETAIL

MINIMUM LE	ENGTH (	FT) TO	BE REST	ΓRAINED	ON EAC	CH SIDE	OF FITT	ING(S).	*
				P	PIPE SIZI				
	6"	8"	10"	12"	16"	18"	20"	24"	30"
90° BEND	36	36	36	54	54	72	72	90	
45° BEND	18	18	18	18	36	36	36	36	
22-1/2° BEND	18	18	18	18	18	18	18	18	
11-1/4° BEND	18	18	18	18	18	18	18	18	
PLUG OR BRANCH OF TEE	18	36	36	54	90	108	108	144	

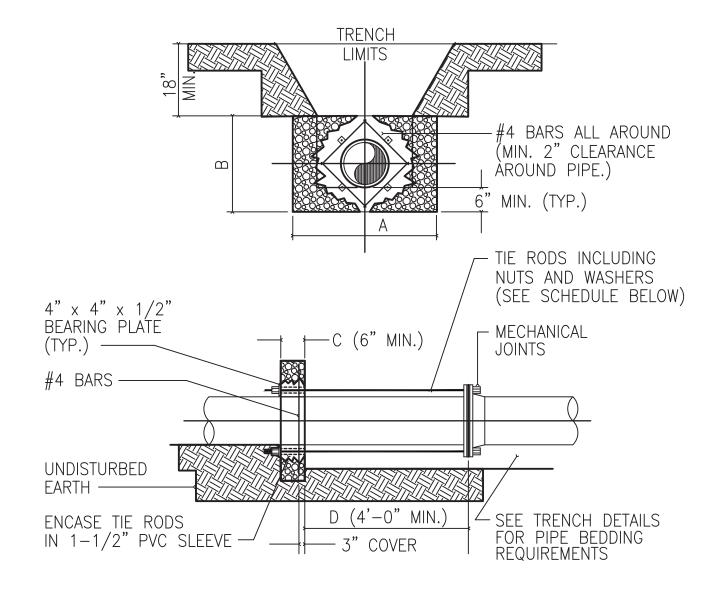
- 1. FITTINGS SHALL BE RESTRAINED JOINTS UNLESS OTHERWISE INDICATED.
- 2. INSTALL FULL LENGTH JOINTS WITH TOTAL LENGTH EQUAL TO OR GREATER THAN SHOWN IN THE TABLE.
- 3. WHERE TWO OR MORE FITTINGS ARE TOGETHER, USE FITTING WHICH YIELDS GREATEST LENGTH OF RESTRAINED PIPE.
- 4. IN LINE VALVES AND THROUGH 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, WITH THE FOLLOWING ASSUMPTIONS:

WORKING PRESSURE: \_\_\_\_\_\_150 P.S.I.\* SOIL DESIGNATION: \_\_\_SAND / SILT LAYING CONDITIONS: TYPE "4" BEDDING

- 6. FOR PIPE ENCASED IN POLYETHYLENE, USE VALUES GIVEN IN PARENTHESES OR INCREASE THE GIVEN VALUE BY A FACTOR OF 1.5.
- \* TO BE COMPLETED BY THE ENGINEER.

RECLAIMED AND POTABLE WATER MAIN RESTRAINED PIPE TABLE.

(FIG. 104)



- 1. ADDITIONAL REINFORCEMENTS SHALL BE AS SPECIFIED BY THE ENGINEER.
- 2. MINIMUM COMPRESSIVE STRENGTH
- FOR CONCRETE SHALL BE 2500 PSI. 3. BEDDING, BACKFILL, AND COMPACTION SHALL BE AS SPECIFIED ELSEWHERE IN THE STANDARD DRAWINGS.
- 4. ALL FORM BOARDS SHALL BE REMOVED PRIOR TO BACKFILL.
- 5. NO ALLOWANCE SHALL BE MADE FOR FRICTION BETWEEN THE PIPE WALL AND THE THRUST COLLAR.
- 6. DESIGN PRESSURE:\_\_\_\_ P.S.I.\*

RECLAIMED AND POTABLE WATER MAIN THRUST COLLAR DETAIL

SCHEE	DULE O	F DIME	NSIONS	AND N	MATERIA	LS *
PIPE		DIME	NSIONS		TIE ROD	S REQ'D
SIZE (INCHES)	Α	В	С	D	DIA.	NO.
NOTE: THRUS	T BLOCK AS	REAS TO RE	COMPLITED	ON BASIS OF	<u> </u>	
LBS. I BEARIN	PER SQ. FT. NG.	SOIL RESTR	AINT	011 2,1010 01	(1,500	MIN) IOTE 5

CITY OF APOPKA
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APOPKA, FLORIDA 32703
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10' UTILITY

EASEMENT (TYP.)

LOTS (TYP.)

LINE (TYP.)

PROPERTY

'|BLOWOFF VALVE

WATER

MAIN (MIN.)

6" (TYP.)

FITTINGS AS

REQUIRED (TYP.)

SIDEWALK (TYP.

(SEE DETAIL)

WATER SERVICE LOCATION DETAIL (FIG. 404)

- WATER MAIN

1. ANCHORING TYPE 90° BEND SHALL ONLY BE USED WHERE RIGHT-OF-WAY

CONSTRICTIONS WILL NOT ALLOW INSTALLATION OF A STRAIGHT ASSEMBLY.

RIGHT OF WAY LINE

Unless otherwise noted Fire Hydrants to be placed 4 feet behind curb

SINGLE SERVICE (TYP.)

WATER MAIN

6" MINIMUM)

HYDRANT

ASSEMBL'

WAY LINE

SERVICE (TYP.)

WATER SERVICE CONNECTION DETAILS (FIG. 405)

SHALL BE BURIED APPROXIMATELY 3" BELOW FINAL GRADE AND SHALL BE CLEARLY MARKED WITH A 2" X 2" X 18" STAKE WITH THE TOP PAINTED BLUE AND MARKED WITH THE NUMBER OF THE

LOT(S) TO BE SERVED.

1. ALL FITTINGS SHALL BE BRASS WITH COMPRESSION/PACK JOINT

2. NO SERVICE LINE SHALL TERMINATE UNDER A DRIVEWAY.

√30 - 45 DEG.

1. ALL 2" PIPE AND FITTINGS SHALL BE SCHEDULE 40 GALVANIZED STEEL

BLOWOFF VALVE DETAIL

CORPORATION

STOP  $(1" MIN.)_{7}$ 

POLYETHYLENE

TUBING (1" MIN.)

DOUBLE METER BOX

(BY CITY OF APOPKA) ——

DOUBLE SERVICE

& FITTING

CORPORATION STOP

(NORMALLY OPEN)

TO METER BOX

POLYETHYLENE

**ASSEMBLY** 

TUBING

AND WATER METER

OR BRASS WITH THREADED (NPT) JOINTS.

(SEE NOTE 3)

WOOD PAINTED

BLUE & WITH LOT NUMBERS & WITH

MARK WITH

3. EACH SERVICE SHALL TERMINATE AT A CURB STOP(S) WHICH

TYPE CONNECTIONS.

SEC. 9.2 CONNECTIONS GREATER THAN ONE PIPE LENGTH (>18 FT. [5.5mm])

AS AN OPTIONAL PROCEDURE (IF SPECIFIED BY PURCHASER), THE PIPE REQUIRED FOR THE CONNECTION AS AN OPTIONAL PROCEDURE (IF SPECIFIED BY PURCHASER), THE PIPE REQUIRED FOR THE CONNECTION MUST BE SET UP ABOVEGROUND, DISINFECTED AND BACTERIOLOGICAL SAMPLES TAKEN, AS DESCRIBED IN SEC. 5 THROUGH SEC. 8, IF THE TOTAL LENGTH OF CONNECTION FROM THE END OF A NEW MAIN TO THE EXISTING MAIN IS GREATER THAN 18 FT. (5.5mm). AFTER SATISFACTORY BACTERIOLOGICAL SAMPLE RESULTS HAVE BEEN RECEIVED FOR THIS "PREDISINFECTED" PIPE, THE PIPE CAN BE USED IN CONNECTING THE NEW MAIN TO THE ACTIVE DISTRIBUTION SYSTEM. BETWEEN THE TIME THAT SATISFACTORY BACTERIOLOGICAL SAMPLE RESULTS ARE RECEIVED AND THE TIME THAT THE CONNECTION PIPING IS INSTALLED, THE ENDS OF THIS PIPING MUST BE SEALED WITH PLASTIC WRAPS OR WATERTIGHT PLUGS OR CAPS.

CONTROL VALVE SMOOTH, UNTHREADED SAMPLING FAUCET CROSS-CONNECTION CONTROL DEVICE CONTROL VALVE — TEMPORARY TEST BLOCKING NEW WATER MAIN SEE SECTION 9-SEE AWWA C651-92 -TEMPORARY CAP SEC 5.2 FIGURE 2 AWWA C651-92

DISHCHARGE/FLUSHING —

-- DOUBLE CHECK BACKFLOW

PRESSURE GAUGE

SCH. 40 GALVANIZED

PROVIDE TEMPORARY

SUPPORTS AS REQUIRED.

3/4" HOSEBIBB W/VACUUM BREAKER

----- 2" SCHD. 80 PVC

2" CORP. STOP

NEW WATER LINE

PIPE AND FITTINGS

PREVENTER ASSEMBLY

AROVE

GRADE

DOUBLE STRAP SADDLE

2"METER ─

PRESSURE GAUGE ---

2" SCHD. 80 PVC. —

2" CORP. STOP

**EXISTING** 

WATER LINE

NOTE:

NOTES AS PER AWWA C-651-92:

SEC. 3 BASIC DISINFECTION PROCEDURE

STORAGE, CONSTRUCTION, OR REPAIR.

SEC. 4.8 BACKFLOW PROTECTION (OPTIONAL)\*

THE BASIC DISINFECTION PROCEDURE CONSISTS OF

SEC. 9 FINAL CONNECTIONS TO EXISTING MAINS (OPTIONAL)\*

└ 2"90° BEND

— 6" BEDDING ROCK

U-BRANCH

FITTING\_

× 3/4")′

2 EA.

- CURB STOP

PREVENTING CONTAMINATING MATERIALS FROM ENTERING THE WATER MAIN DURING

AS AN OPTIONAL PROCEDURE (IF SPECIFIED BY PURCHASER), THE NEW WATER MAIN SHALL BE KEPT ISOLATED FROM THE ACTIVE DISTRIBUTION SYSTEM BY PHYSICAL SEPERATION

(SEE FIGURE 1) UNTIL SATISFACTORY BACTERIOLOGICAL TESTING HAS BEEN COMPLETED AND THE

DISINFECTANT WATER FLUSHED OUT. WATER REQUIRED TO FILL THE NEW MAIN FOR HYDROSTATIC

PRESSURE TESTING, DISINFECTION, AND FLUSHING SHALL BE SUPPLIED THROUGH A TEMPORARY CONNECTION BETWEEN THE DISTRIBUTION SYSTEM AND THE NEW MAIN. THE TEMPORARY CONNECTION SHALL INCLUDE AN APPROPRIATE CROSS—CONNECTION CONTROL DEVICE CONSISTENT WITH THE DEGREE OF HAZZARD, AND SHALL BE DISCONNECTED (PHYSICALLY SEPERATED) FROM THE NEW MAIN DURING THE HYDROSTATIC PRESSURE TEST. IT WILL BE NECESSARY TO REESTABLISH THE TEMPORARY CONNECTION AFTER COMPLETION OF THE HYDROSTSTIC PRESSURE TEST TO FLUSH OUT THE DISINFECTANT WATER PRIOR TO FINAL CONNECTION OF THE NEW MAIN TO THE DISTRIBUTION SYSTEM.

AS AN OPTIONAL PROCEDURE (IF SPECIFIED BY PURCHASER), WATER MAINS AND APPURTENANCES MUST BE COMPLETELY INSTALLED, FLUSHED, DISINFECTED, AND SATISFACTORY BACTERIOLOGICAL SAMPLE RESULTS RECEIVED PRIOR TO PERMANENT CONNECTIONS BEING MADE TO THE ACTIVE DISTRIBUTION

SYSTEM. SANITARY CONSTRUCTION PRACTICES MUST BE FOLLOWED DURING INSTALLATION OF THE FINAL

AS AN OPTIONAL PROCEDURE (IF SPECIFIED BY PURCHASER), THE NEW PIPE, FITTINGS, AND VALVE(S) REQUIRED FOR THE CONNECTION MAY BE SPRAY-DISINFECTED OR SWABBED WITH A MINIMUM (1) PERCENT

SOLUTION OF CLORINE JUST PRIOR TO BEING INSTALLED, IF THE TOTAL LENGTH OF CONNECTION FROM THE END OF A NEW MAIN TO THE EXISTING MAIN IS EQUAL TO OR LESS THAN 18 FT. (5.5mm)

CONNECTION, SO THAT THERE IS NO CONTAMINATION OF THE NEX OR EXISTING WATER MAIN WITH FOREIGN MATERIAL OR GROUNDWATER.

RESULTS RECEIVED PRIOR TO PERMANENT CONNECTIONS BEING MADE TO THE ACTIVE DISTRIBUTION

2. REMOVING, BY FLUSHING OF OTHER MEANS, THOSE MATERIALS THAT MAY HAVE

ENTERED THE WATER MAIN.
3. CLORINATING ANY RESIDUAL CONTAMINATION THAT MAY REMAIN, AND FLUSHING THE CLORINATED WATER FROM THE MAIN.

4. PROTECTING THE EXISTING DISTRIBUTION SYSTEM FROM BACKFLOW DUE TO HYDROSTATIC PRESSURE TESTAND DISINFECTION PROCEDURES.
5. DETERMINING THE BACTERIOLOGICAL QUALITY BY LABORATORY TEST AFTER

DISINFECTION.

6. FINAL CONNECTION OF THE APPROVED NEW WATER MAIN TO THE ACTIVE

SEC. 9.1 CONNECTIONS EQUAL TO OR LESS THAN ONE PIPE LENGTH (≤18 FT. [5.5mm]

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS,

ASSEMBLY, AND THE INSTALLATION OF THE DEVICE.

TEMPORARY JUMPER CONNECTION

- TIE-IN VALVE MUST BE CLOSED AND

REMAIN LOCKED. CITY TO PROVIDE LOCKING MECHANISM. VALVE WILL BE

OPERATED BY CITY PERSONNEL ONLY.

CLOSED AND PLUGGED WITH 2 INCH BRASS PLUGS.

TEMPORARY JUMPER CONNECTION NOTES:

LEAKING VALVE.

MAIN MUST NOT DROP BELOW 35 PSI.

VALVE IS GREATER THAN 10 PSI.

FDEP AND ALL OTHER PERTINENT AGENCIES.

THE UTILITY COMPANY.

6. UPON RECEIPT OF CLEARANCE FOR USE FROM FDEP AND ALL OTHER PERTINENT AGENCIES, THE CONTRACTOR SHALL REMOVE THE TEMPORARY JUMPER CONNECTION. THE CORPORATION STOPS ARE TO BE

7. ALL INSTALLATION AND MAINTENANCE OF THE TEMPORARY JUMPER CONNECTION AND ASSOCIATED

BACKFLOW PREVENTION DEVICE, FITTINGS, VALVE, ETC. SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

1. A TEMPORARY JUMPER CONNECTION IS REQUIRED AT ALL CONNECTIONS BETWEEN EXISTING

2. THE DETAIL ABOVE IS TO BE USED FOR FILLING ANY NEW WATER MAIN OF ANY SIZE FROM EXISTING ACTIVE WATER MAINS AND FOR FLUSHING OF NEW MAINS UP TO 8 INCHES IN

DISINFECTED BY SPRAYING OR SWABBING PER SECTION II OF AWWA C651-92.

DIAMETER (2.5 FPS MINIMUM VELOCITY) AND FOR PULLING BACTERIOLOGICAL SAMPLES FROM ANY

NEW WATER MAIN OF ANY SIZE. THE JUMPER CONNECTION SHALL BE MAINTAINED UNTIL AFTER FILLING,

OTHER PERTINENT AGENCIES HAVE BEEN RECEIVED. THE JUMPER CONNECTION SHALL ALSO BE USED TO

PROVIDED TEMPORARILY, AS REQUIRED. PIPE AND FITTINGS USED FOR CONNECTING THE NEW PIPE TO THE

FLUSHING, TESTING AND DISINFECTION OF THE NEW MAIN HAS BEEN SUCCESSFULLY COMPLETED AND

CLEARANCE FOR USE FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND

MAINTAIN A MINIMUM PRESSURE OF 20 PSI IN THE NEW MAINS AFTER DISINFECTION AND UNTIL THE

EXISTING PIPE SHALL BE DISINFECTED PRIOR TO INSTALLATION IN ACCORDANCE WITH AWWA C651, 1992 EDITION. THE TAPPING SLEEVE AND THE EXTERIOR OF THE MAIN TO BE TAPPED SHALL BE

3. FLUSHING OF 10 INCHES IN DIAMETER AND LARGER WATER MAINS MAY BE DONE THROUGH THE TIE-IN VALVE UNDER VERY CONTROLLED CONDITIONS. THE FOLLOWING PROCEDURES SHALL BE FOLLOWED:

B. THE TEMPORARY JUMPER CONNECTION SHALL BE CONSTRUCTED AS DETAILED. THE JUMPER CONNECTION SHALL BE USED TO FILL THE NEW WATER MAIN AND FOR PROVIDING WATER FOR

\* FLUSHING SHALL NOT BE ATTEMPTED DURING PEAK DEMAND HOURS OF THE EXISTING WATER

\* ALL DOWNSTREAM VALVES IN THE SYSTEM MUST BE OPEN PRIOR TO OPENING THE TIE-IN VALVE.

C. THE TIE-IN VALVE SHALL BE LOCKED CLOSED BY THE UTILITY COMPANY UNTIL FLUSHING BEGINS.

D. THE TIE-IN VALVE SHALL BE OPENED ONLY FOR FLUSHING OF THE NEW MAIN. THE PROCEDURE

E. AFTER FLUSHING, THE TIE-IN VALVE SHALL BE CLOSED AND LOCKED IN THE CLOSED POSITION BY

4. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION DEMONSTRATING THAT THE DOUBLE CHECK BACKFLOW

5. EXCEPT AS REQUIRED TO FLUSH LINES OF GREATER THAN 8 INCHES IN DIAMETER, THE TIE—IN VALVE

PREVENTION DEVICE HAS BEEN TESTED AND IS IN GOOD WORKING ORDER AT THE TIME OF INSTALLATION.

SHALL REMAIN CLOSED AND SHALL BE LOCKED IN THE CLOSED POSITION BY THE UTILITY COMPANY. THE

TIE-IN VALVE SHALL REMAIN LOCKED CLOSED UNTIL THE NEW SYSTEM HAS BEEN CLEARED FOR USE BY

SHALL BE DIRECTED BY THE UTILITY COMPANY AND OBSERVED BY THE ENGINEER.

\* PROVIDE FOR AND MONITOR THE PRESSURE IN THE TIE-IN POINT. THE PRESSURE IN THE EXISTING

\* THE TIE-IN VALVE SHALL BE OPENED A FEW TURNS ONLY, ENSURING A PRESSURE DROP ACROSS THE

BACTERIOLOGICAL SAMPLING OF THE NEW MAIN AS REQUIRED BY THE FDEP PERMIT.

A. THE TIE-IN VALVES SHALL BE OPERATED AND PRESSURE TESTED IN THE PRESENCE OF THE UTILITY

COMPANY AND ENGINEER TO VERIFY WATER TIGHTNESS PRIOR TO TIE-IN. VALVES WHICH ARE NOT

WATER TIGHT SHALL BE REPLACED WITH A NEW VALVE INSTALLED IMMEDIATELY ADJACENT TO THE

FDEP CLEARANCE LETTER IS OBTAINED ADEQUATE. THRUST BLOCKING AND/OR RESTRAINTS SHALL BE

ACTIVE WATER MAINS AND PROPOSED NEW WATER MAIN IMPROVEMENTS.

DECHLORINATION FOR DETAIL ON SUGGESTED BLOWOFF AND SAMPLING TAP OR PLUG

\* CLEAN POTABLE—WATER HOSE ONLY. SIZE AND NUMBER OF TAPS PER AWWA C-651-92 SECTION 5.2.2 TABLE 3. THIS HOSE MUST BE REMOVED DURING THE HYDROSTATIC PRESSURE TEST. NOTE: FIGURE APPLIES TO PIPE WITH DIAMETERS 4 IN.(100mm) THROUGH 12 IN.(300mm). ALL LARGER SIZES MUST BE HANDLED ON A CASE-BY-CASE BASIS.

TEMPORARY JUMPER CONNECTION

SHEET G-4

ENE

APOPKA EERING DIVIS LAND AVENUE PRIDA 32703 FAX: (407) 889-

CITY
SIGN EN
748 E. (
APOPKA

OF

FINISHED GRADE

2" GATE VALVE -

2" 90° BEND—

STRAINED JOINT

WATER MAIN

TAPPED CAP

CORPORATION

POLYETHYLENE

TUBING (1" MIN.)

SINGLE METER BOX

(BY THE CITY OF APOPKA.) -

SINGLE SERVICE

AND WATER METER

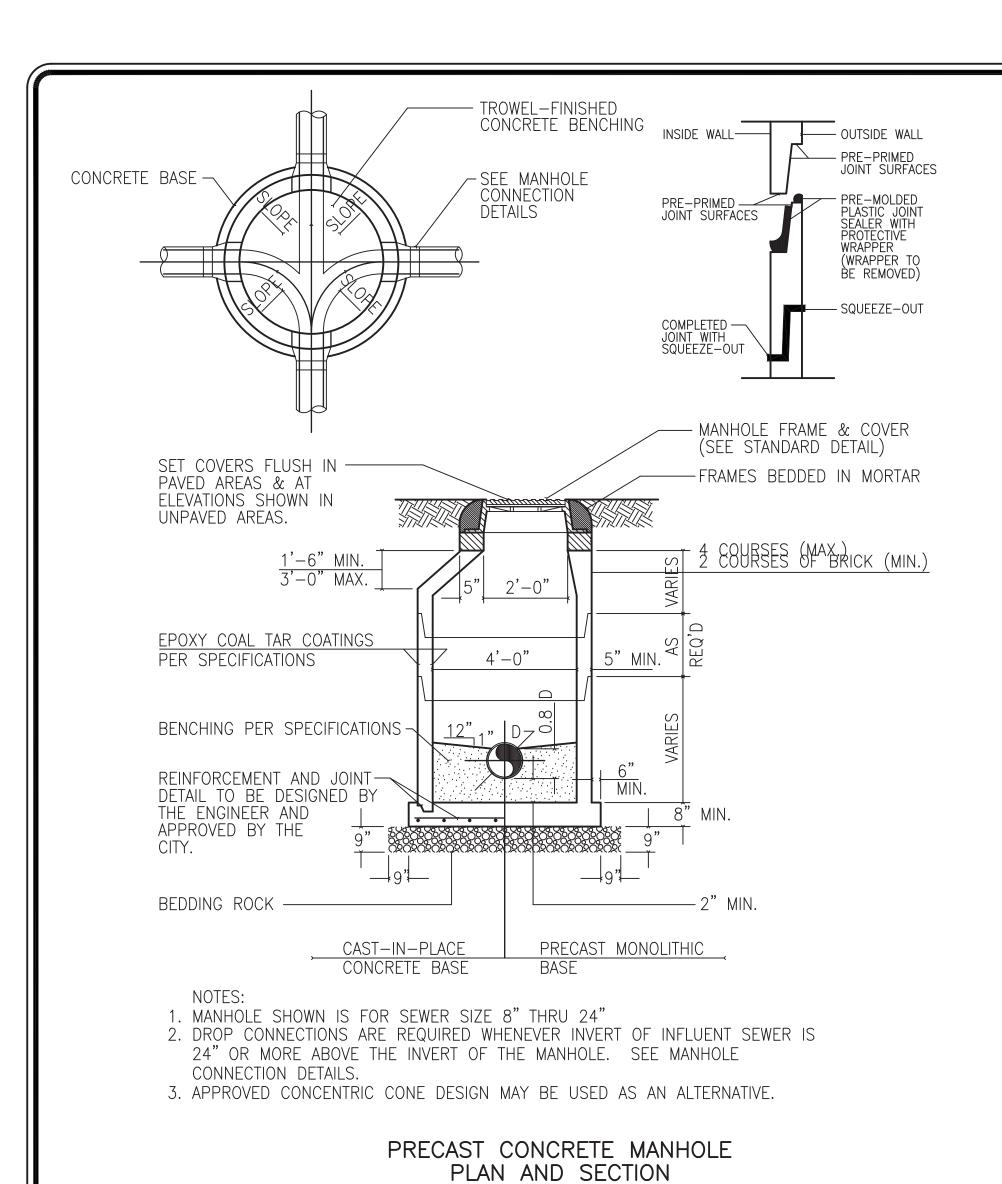
AWWA TYPF

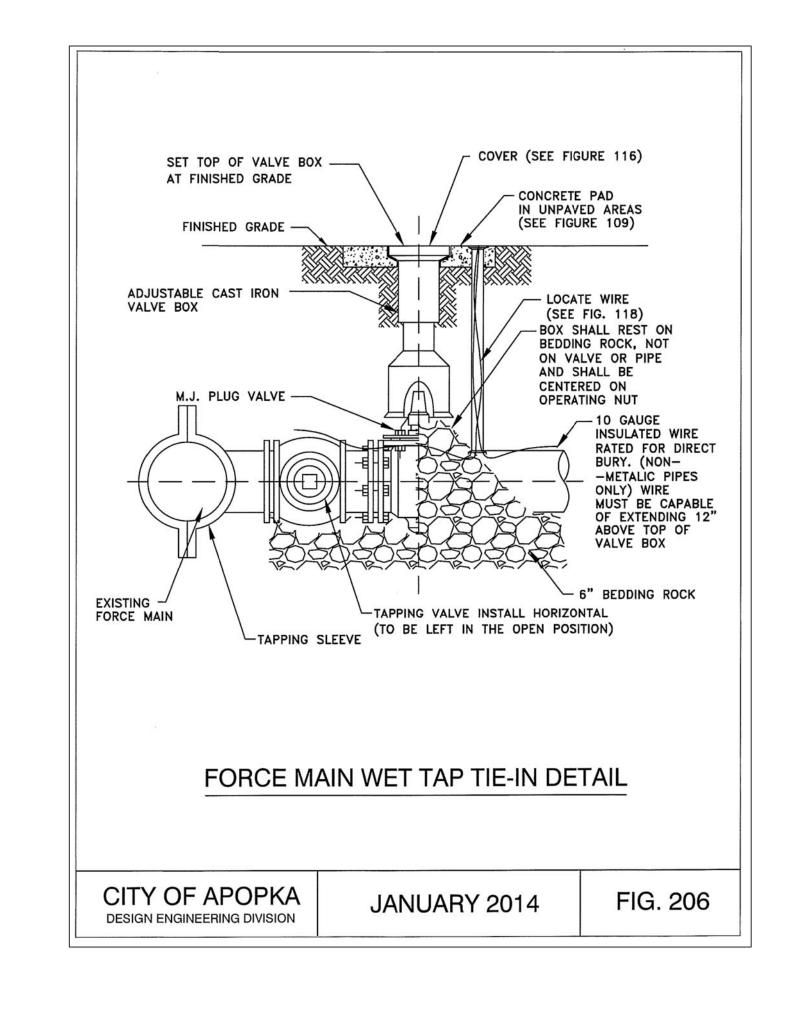
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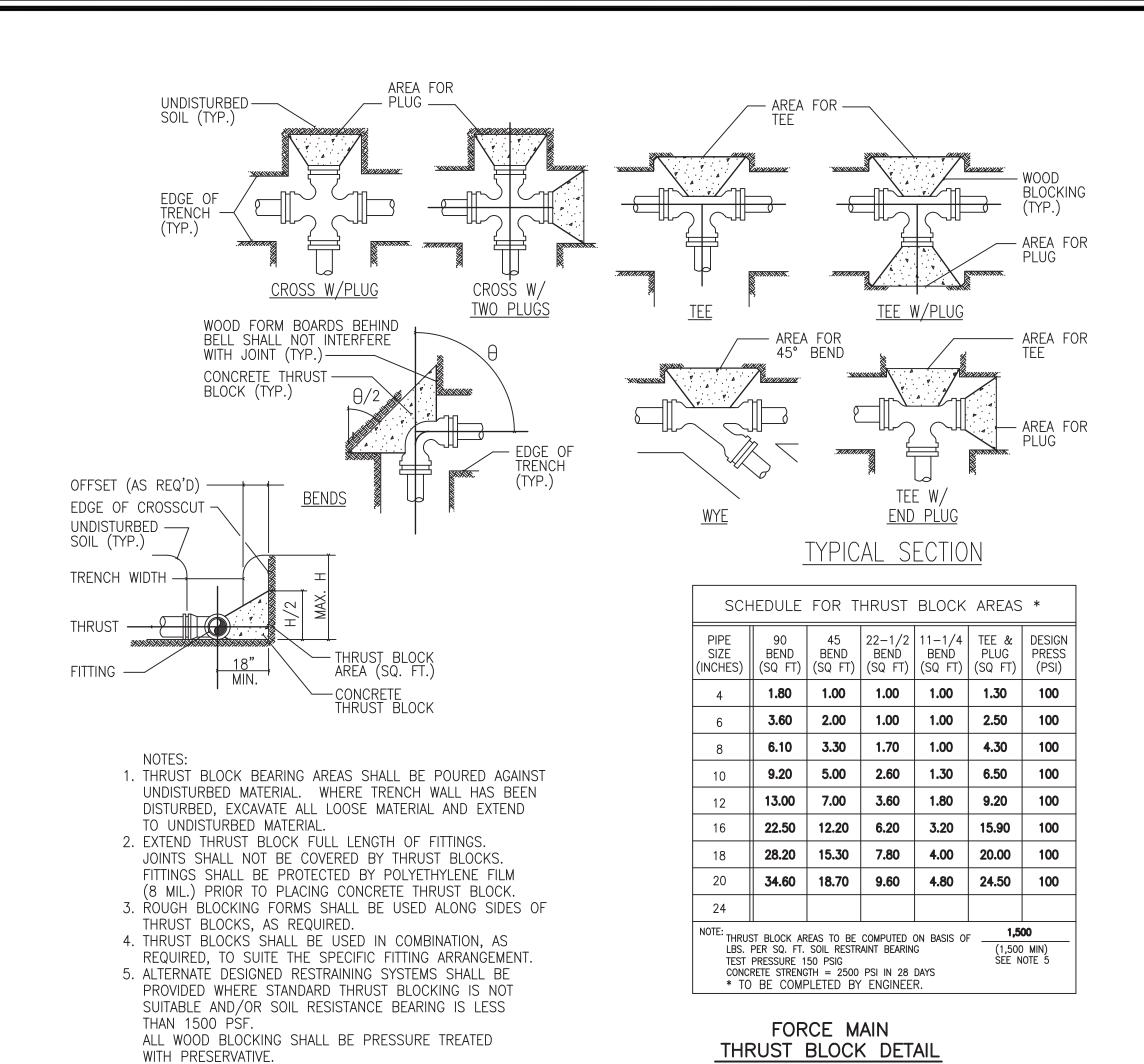
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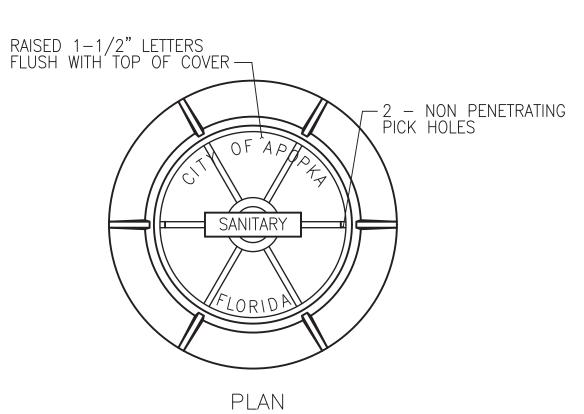
WATER MAIN

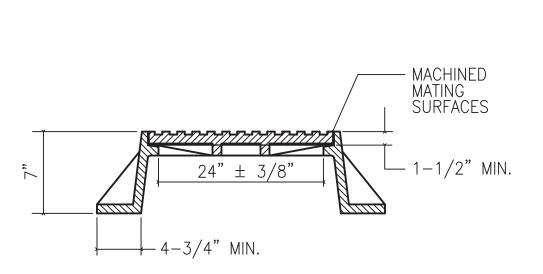
STOP (1" MIN.) $\overline{\phantom{a}}$ 





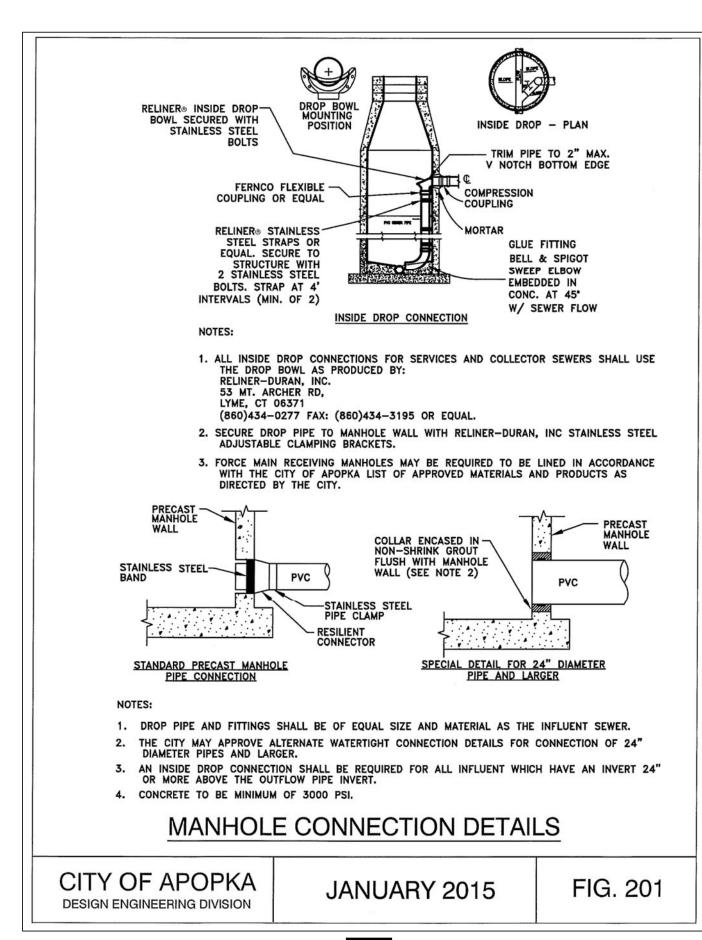


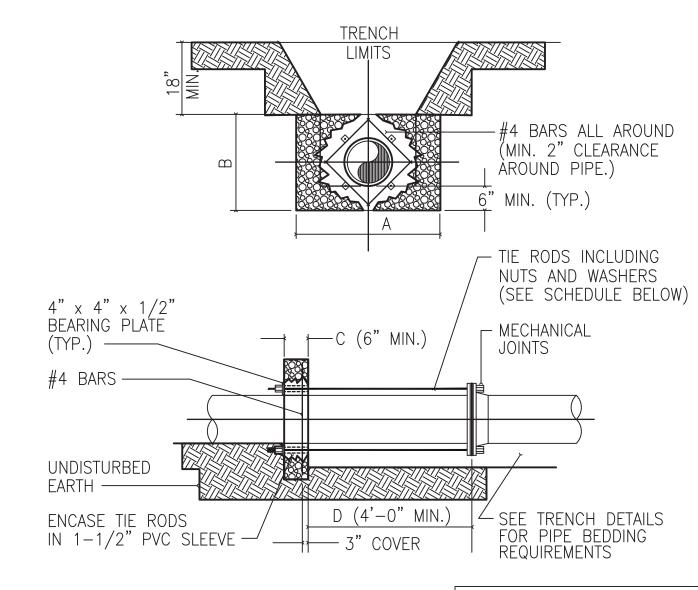




ELEVATION

STANDARD MANHOLE FRAME AND COVER (FIG. 202)

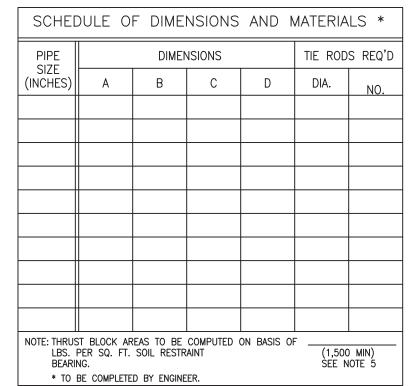


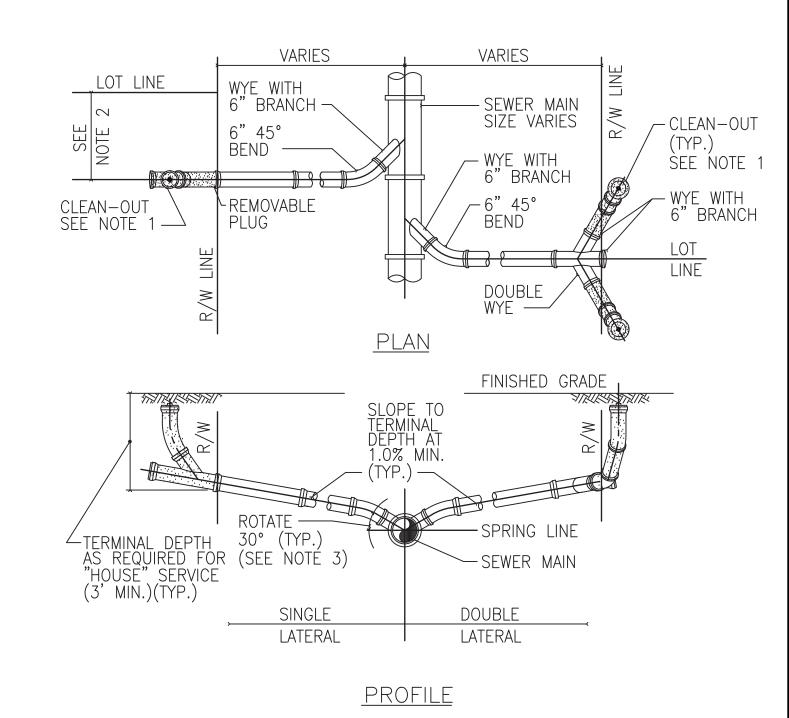


1. ADDITIONAL REINFORCEMENTS SHALL BE AS SPECIFIED BY THE ENGINEER

- 2. MINIMUM COMPRESSIVE STRENGTH FOR CONCRETE SHALL BE 2500 PSI. 3. BEDDING, BACKFILL, AND COMPACTION SHALL BE AS SPECIFIED ELSEWHERE IN THE STANDARD DRAWINGS.
- 4. ALL FORM BOARDS SHALL BE REMOVED PRIOR TO BACKFILL.
- 5. NO ALLOWANCE SHALL BE MADE FOR FRICTION BETWEEN THE PIPE WALL AND THE THRUST COLLAR. 6. DESIGN PRESSURE:\_\_\_\_ P.S.I.\*

FORCE MAIN THRUST COLLAR DETAIL





1. CLEAN-OUT (SHOWN SHADED) SHALL BE INSTALLED BY THE BUILDER IN ACCORDANCE WITH STANDARD PLUMBING CODE 2. LOCATE SINGLE LATERAL AS CLOSE TO LOT LINE AS POSSIBLE,

3. INVERT OF SERVICE LATERAL SHALL NOT ENTER SEWER MAIN BELOW SPRING LINE.

SERVICE LATERAL DETAIL

SHEET

: APOPKA IEERING DIVISI LAND AVENUE DRIDA 32703 FAX: (407) 889-1

CITY OF A SIGN ENGINE APPRA, FLOR APPRA, FLOR (27) 889-1731 F

G-5

(FIG.204)

- ALL CONSTRUCTION SHALL CONFORM WITH THE STANDARDS AND SPECIFICATIONS SET FORTH BY LOCAL, STATE AND FEDERAL REGULATIONS, WHICHEVER IS MORE STRINGENT SHALL APPLY.
- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ACQUIRE THE NECESSARY RIGHT-OF-WAY PERMIT(S) AND PROVIDE FOR THE SAFETY AND CONTROL OF TRAFFIC DURING CONSTRUCTION.
- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND IN-HAND BEFORE BEGINNING ANY CONSTRUCTION.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING (HORIZONTALLY AND VERTICALLY) ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND FOR NOTIFYING VARIOUS UTILITY COMPANIES TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION, TEMPORARY DISTRIBUTION SERVICE. OR CLARIFICATION OF ACTIVITY REGARDING SAID UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING AN UNDERGROUND UTILITY, WHETHER SHOWN ON THESE PLANS OR FIELD LOCATED. ALL UTILITIES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANIES AND THE CONTRACTOR SHALL COOPERATE WITH THEM DURING RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE OF THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.
- 5. THE LOCATION OF ALL EXISTING UTILITIES, STORM DRAINAGE SYSTEMS, AND TOPOGRAPHIC FEATURES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR INACCURACY. SHOULD A DISCREPANCY ARISE BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, WHICH WOULD APPRECIABLY AFFECT THE EXECUTION OF THESE PLANS, THE CONTRACTOR WILL HALT CONSTRUCTION AND NOTIFY THE ENGINEER IMMEDIATELY.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE CITY WITHIN 48 HOURS BEFORE ANY INSPECTIONS. ALSO THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL INSPECTION CRITERIA, SCHEDULES AND SIGNING SAID INSPECTIONS.
- 7. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED UNLESS OTHERWISE NOTED.
- 8. THE CONTRACTOR SHALL NOT EXCAVATE REMOVE OR OTHERWISE DISTURB ANY MATERIAL, STRUCTURE OR PART OF A STRUCTURE WHICH IS LOCATED OUTSIDE THE LINES, GRADES OR GRADING SECTION, ESTABLISHED FOR THIS PROJECT, EXCEPT WHERE SUCH EXCAVATIONS OR REMOVAL IS PROVIDED OR IN THE CONTRACT, PLANS, OR SPECIFICATIONS.
- 9. ALL WORK AND ALL MATERIALS FURNISHED SHALL BE IN CONFORMITY WITH THE LINES, GRADES, GRADING SECTIONS, CROSS SECTIONS, DIMENSIONS, MATERIAL REQUIREMENTS, AND TESTING REQUIREMENTS THAT ARE SPECIFIED IN THE CONTRACT, PLANS OR SPECIFICATIONS.
- 10. PROVIDE A MINIMUM OF 3 FT COVER FOR ALL UTILITIES
- UNLESS OTHERWISE NOTED. 11. COMPACT ALL UTILITIES TRENCHES WITHIN ROADWAYS TO 98% OF THE PROCTOR MAXIMUM DENSITY.
- 12. THE SPECIFICATIONS, NOTES AND PLANS CALL ATTENTION TO CERTAIN REQUIRED FEATURES OF THE CONSTRUCTION BUT DO NOT PURPORT TO COVER ALL DETAILS OF DESIGN AND CONSTRUCTION. HOWEVER, THE CONTRACTOR SHALL FURNISH AND INSTALL THE WORKS IN ALL DETAILS AND READY FOR OPERATION.
- 13. ALL EQUIPMENT SHALL BE HANDLED, STORED, INSTALLED, TESTED AND OPERATED IN STRICT ACCORDANCE WITH THE APPLICABLE MANUFACTURER'S
- 14. ALL WORK SHALL BE ACCOMPLISHED TO THE HIGHEST QUALITY CRAFTSMANSHIP STANDARDS.

ACCEPTANCE OF THESE CONDITIONS BY THE BIDDER

WRITTEN INSTRUCTIONS.

- 15. ALL WORK SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES ORDINANCES REGULATIONS.
- 16. APPARENT ERRORS, DISCREPANCIES OR OMISSIONS ON THE DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION BEFORE BIDDING 17. AFTER COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TO THE CITY, A COMPLETED ASBUILT ONE WEEK BEFORE FINAL INSPECTION. BEFORE THE FINAL ACCEPTANCE IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PERFORM A SITE CLEANUP FOR THE REMOVAL OF TRASH, DEBRIS, EXCESS MATERIALS AND
- EQUIPMENT TO PRESENT THE PROJECT SITE CLEAN AND IN GOOD ORDER. 18. NO EXTRA PAYMENTS WILL BE ALLOWED FOR ANY WORK REQUIRED DUE TO MISUNDERSTANDING OF JOB OR SITE CONDITIONS AFFECTING THE WORK AS DESCRIBED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL NOT TAKE ADVANTAGE OF ANY APPARENT ERROR OR OMISSION IN THE DRAWINGS OR SPECIFICATIONS, AND THE ENGINEER SHALL BE PERMITTED TO MAKE CORRECTIONS AND INTERPRETATION AS MAY BE DEEMED NECESSARY FOR THE FULFILLMENT OF THE INTENT OF THE CONTRACTS DOCUMENTS. THE TENDERING OF A PROPOSAL WILL ACKNOWLEDGE
- 19. THE CONTRACTOR SHALL SUBMIT FOUR (4) SETS OF DETAILED SHOP DRAWINGS OF ALL MAJOR ITEMS PROPOSED FOR THIS PROJECT TO THE ENGINEER PRIOR TO ORDERING ANY OF THE EQUIPMENT. TWO (2) COPIES OF THE SHOP DRAWINGS WILL BE RETURNED TO THE CONTRACTOR. UPON THE CONTRACTOR'S RECEIPT OF APPROVED SHOP DRAWINGS FROM THE ENGINEER, THE CONTRACTOR MAY PROCEED WITH THE WORK.
- 20. INSTALL VALVE BOXES WITH ALL VALVES. VALVE BOXES UNDER THE PAVEMENTS SHALL HAVE TRAFFIC BEARING COVERS.
- 21. SEPARATION OF WATER MAINS, SANITARY SEWERS & STORM SEWERS SHALL BE AS PER THE RECOMMENDATION OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, LATEST REQUIRMENTS.
- A. <u>UTILITY SEPARTION-VERTICAL CLEARANCE</u> WHERE WATER AND GRAVITY SANITARY SEWER MAINS CROSS WITH LESS THAN 18 INCHES VERTICAL CLEARANCE OR THE SEWER MAIN IS ABOVE THE WATER MAIN, THE SANITARY SEWER SHALL BE 20 FEET OF PVC UPGRADED TO WATER MAIN STANDARDS AND PRESSURE TESTED TO AWWA C900/ASTM 1784 WHERE WATER MAINS AND STORM SEWERS PIPES CROSS WITH LESS THAN
- 18 INCHES VERTICAL CLEARANCE, THE WATER MAIN SHALL BE 20 FEET OF DUCTILE IRON PIPE CENTERED ON THE POINT OF CROSSING.
- B. UTILITY SEPARATION-HORIZONTAL SEPARATION
- WHEN A WATER MAIN PARALLELS A GRAVITY SANITARY SEWER MAIN, A SEPARATION (MEASURED EDGE TO EDGE) OF AT LEAST 10 FEET SHOULD BE MAINTAINED. WHERE THIS SEPARATION IS NOT MET, ONE OF THE FOLLOWING MUST OCCUR:
- 1. THE WATER MAIN IS LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER, OR;
- 2. IF BOTH SANITARY SEWER AND POTABLE WATER MAINS ARE PROPOSED AND ABOVE (1) IS NOT MET, THE SANITARY SEWER PIPES SHALL BE UPGRADED TO THE EQUIVALENT PIPE MATERIAL AS THE WATER MAIN AND PRESSURE TESTED. DUCTILE IRON SHALL NOT BE USED FOR SANITARY SEWER UNLESS APPROVED BY THE DIRECTOR.
- 3. IF THE SANITARY SEWER IS EXISTING AND THE POTABLE WATER MAIN IS PROPOSED. THE WATER MAIN SHALL, AT A MINIMUM, BE UPGRADED TO DUCTILE IRON PIPE. CONSTRUCTED IN SEPARATE TRENCHES, LAID AT A HIGHER ELEVATION THAN THE SANITARY SEWER, AND UTILIZE STAGGERED JOINTS.
- C. FORCE MAINS
- SEPARATION BETWEEN FORCE MAIN AND WATER MAINS MUST BE MAINTAINED UNLESS APPROVED BY FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION. D. <u>SEWER MANHOLES</u>
- NO WATER PIPES SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SEWER MANHOLE.
- 22. WATER MAIN MATERIALS:
- A. PVC PIPE: PVC PIPE OF NORMAL DIAMETER OF FOUR (4) THROUGH TWELVE ( (12) INCHES SHALL BE (BLUE) AWWA STANDARD C900, CLASS 150, DR 18. ÀND SHALL BEAR THE NSF LOGO FOR POTABLE WATER USE. AND MUST MEET THE REQUIREMENTS OF ASTM D-1784.

- B. DUCTILE IRON PIPE: DUCTILE IRON PIE FOR WATER MAIN FOR PIPE SIZES OF FOUR (4) THOUGH FIFTY (50) INCHES SHALL CONFORM TO ANSI/AWWA A21.51/C151. A MINIMUM OF CLASS 50 UNLESS OTHERWISE NOTED.
- C. PVC WATER MAIN JOINTS: 1. PVC PIPE SHALL HAVE INTEGRAL BELL PUSH ON TYPE JOINTS CONFORMING TO
  - ASTM D3139. 2. JOINTS FOR DUCTILE IRON PIPE AND FITTING JOINTS SHALL BE PUSH-ON OR MECHANICAL JOINTS CONFORMING TO ANSI/AWWA A21.11/C111. WHERE CALLED FOR IN THE PLANS, RESTRAINED OR FLANGED JOINTS SHALL BE PROVIDED. FLANGED JOINTS SHALL CONFORM TO ANSI STANDARD B16.1-125LB. RESTRAINED JOINTS SHALL CONFORM TO NOTE 31 OF THIS SHEET.
- D. PVC AND DUCTILE IRON PIPE WATER MAIN FITTINGS: 1. ANY FITTINGS REQUIRED SHALL BE MECHANICAL JOINT DUCTILE IRON OR GREY IRON CONFORMING TO ANSI/AWWA A21.10/C110, 25 PSI MINIMUM PRESSURE RATING, OR DUCTILE IRON COMPACT FITTINGS FOUR (4) THROUGH TWELVE (12) INCHES IN ACCORDANCE WITH ANSI/AWWA A21.53/C153.
- E. SERVICE PIPE, STOPS AND FITTINGS:
  - 1. SERVICE PIPE: ALL SERVICE LINES SHALL BE 1", 1-1/2' OR 2" POLYETHYLENE TUBING WITH NSF LOGO FOR POTABLE WATER USE, AND MUST CONFORM TO SPECIFICATION IN AWWA C800 AND AWWA C901.
  - CORPORATION STOPS SHALL BE 1", 1-1/2" OR 2" BRASS, EQUIPPED WITH CONNECTIONS COMPATIBLE WITH THE POLYETHYLENE TUBING AND THREADED IN ACCORDANCE WITH SPECIFICATIONS IN AWWA C800 AND AWWA C901. CURB STOPS SHALL BE SIZED TO MATCH THE METER SIZE AND CONFORM TO THE SPECIFICATIONS IN AWWA C800 AND AWWA C901.
  - 3. FITTINGS: FITTINGS SHALL BE BRASS, CAST AND MACHINED IN ACCORDANCE WITH SPECIFICATIONS IN AWWA C800 AND AWWA C901.WITH COMPATIBLE POLYETHYLENE TUBING CONNECTIONS.
  - 4. SERVICE SADDLES:

A SERVICE SADDLE SHALL BE USED FOR ALL SERVICE LINE TRAPS SERVICE SADDLES SHALL BE DOUBLE STRAP, ANCHORED BY A MINIMUM FOUR (4) BOLT PATTERN ON A DUCTILE IRON SADDLE BODY. SERVICE SADDLÈS FOR PVC PIPES SHALL HAVE THE DOUBLE STRAP SIZED EXACTLY TO THE PIPE OUTSIDE DIAMETER. SEALING GASKETS SHALL BE BUNA-N RUBBER AND STRAPS SHALL BE CORROSION RESISTANT ALLOY STEEL THE CITY MAY REQUIRE A STAINLESS STEEL STRAP AND FUSION EPOXY OR NYLON COATED DUCTILE IRON BODY WITH STAINLESS STEEL HARDWARE IN AREAS DESIGNATED AS CORROSIVE.

- F. MARKING FOR WATERMAIN:
- ALL NON-METALLIC WATERMAINS SHALL BE INSTALLED WITH A CONTINUOUS, INSULATED 10 GAUGE INSULATED COPPER WIRE (RATED FOR 600 V AND FOR DIRECT BURY) INSTALLED DIRECTLY ON TOP OF THE PIPE FOR LOCATION PURPOSES. IN ADDITION ALL PVC WATERMAINS SHALL BE EITHER A SOLID BLUE COLOR OR WHITE WITH BLUE LETTERING. ALL LETTERING SHALL APPEAR LEGIBLY ON PIPE AND SHALL RUN THE ENTIRE LENGTH OF THE PIPE. LETTERING SHALL READ AS IS ACCEPTABLE FOR THE INTENDED USE.
- ALL DUCTILE IRON WATER MAINS SHALL BE MARKED WITH A CONTINUOUS STRIPE LOCATED WITHIN THE TOP 90 DEGREES OF THE PIPE. SAID STRIPE SHALL BE A MINIMUM 2 INCHES IN WIDTH AND SHALL BE BLUE IN COLOR. BACKFILL SHALL NOT BE PLACED FOR 30 MINUTES FOLLOWING PAINT APPLICATION.
- 23. SANITARY PIPE MATERIALS:
  - A. PVC GRAVITY SEWER PIPE:

PVC GRAVITY SEWER PIPE (4"-15"), ASTM D3034, SDR 35. UNIFORM MINIMUM "PIPE STIFFNESS" AT FIVE (5) PERCENT DEFLECTION SHALL BE 46 PSI. 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-DW SEAL. THE MINIMUM STANDARD LENGTH OF THE PIPE SHALL BE THIRTEEN (13) FEET.

- B. DIP GRAVITY SEWER PIPE:
- -DUCTILE IRON PIPE SHALL CONFORM TO ANSI/AWWA A21.51/C151, CLASS THICKNESS DESIGNED PER ANSI/AWWA A21.51/C151. WITH MECHANICAL OR PUSH ON JOINTS. AN INTERIOR PROTECTIVE LINING OF COAL TAR EPOXY SHALL BE PROVIDED WITH A MINIMUM DRY THICKNESS OF 30 MILS. DUCTILE IRON GRAVITY SEWERS, WHERE CALLED FOR BY THE CITY, SHALL BE WRAPPED WITH POLYETHYLENE FILM. AWWA C105. THE MINIMUM-STANDARD LENGTH OF PIPE SHALL BE EIGHTEEN (18) FEET. (DUCTILE IRON SHALL NOT BE USED FOR SANITARY SEWER UNLESS APPOVED BY THE DIRECTOR)
- C. PIPE MARKINGS:
- ALL PIPE SHALL HAVE A HOMING MARK ON THE SPIGOT PROVIDED BY THE MANUFACTURER. ON FIELD CUT PIPE. CONTRACTOR SHALL PROVIDE HOMING MARK ON THE SPIGOT IN ACCORDANCE WITH THE MANUFACTURER'S
- RECOMMENDATIONS.
- D. JOINT MATERIALS; 1. PVC PIPE: PVC SEWER PIPE JOINTS SHALL BE FLEXIBLE ELASTOMERIC SEALS PER ASTM D3212.
- -2. DUCTIL IRON PIPE: DUCTILE IRON PIPE AND FITTING JOINTS SHALL BE "PUSH-ON" OR MECHANICAL JOINTS CONFORMING TO ANSI A21.11.
- ALL FITTINGS SHALL BE THE SAME MATERIAL AS THE PIPE.

## 24. FORCEMAINS

- A. PVC PIPE: PVC PIPE OF NORMAL DIAMETER OF FOUR (4) THROUGH TWELVE (12) INCHES SHALL BE GREEN AWWA C900, CLASS 150 DR 25 OR CLASS 100 DR 21 AND MUST MEET THE REQUIREMENTS OF ASTM D-1784.
- B. DUCTILE IRON PIPE: DUCTILE IRON PIPE FOR FORCE MAINS FOR PIPE SIZES OF FOUR (4) THROUGH FIFTY FOUR (54) INCHES SHALL CONFORM TO ANSI/AWWA-- A21.51/C151. A MINIMUM OF CLASS 50 UNLESS OTHERWISE NOTED. <del>(DUCTILÈ IRON SHALL NOT BE USED FOR FORCE MAIN UNLESS-</del> APPOVED BY THE DIRECTOR)
- C. FORCEMAIN JOINTS:
- 1. PVC PIPE SHALL HAVE INTEGRAL BELL PUSH-ON TYPE JOINTS CONFORMING IRON PIPE AND FITTING SHALL BE THE SAME AS IN-
- NOTE 22 C.2 OF THIS SHEET. D. FORCEMAIN FITTINGS:
  - 1. FORCEMAIN FITTING FOR PVC AND DIP SHALL BE THE SAME AS IN NOTE 22-D.1 OF THIS SHEET.
- F. MARKING FOR FORCEMAIN: ALL NON-METALLIC FORCE MAINS SHALL BE INSTALLED WITH A CONTINUOUS, INSULATED 10 GAUGE INSULATED COPPER WIRE (RATED FOR 600 V AND FOR DIRECT BURY) INSTALLED DIRECTLY ON TOP OF THE PIPE FOR LOCATION PURPOSES. IN ADDITION ALL PVC FORCE MAINS SHALL BE EITHER A SOLID GREEN COLOR OR WHITE WITH GREEN LETTERING. ALL LETTERING SHALL APPEAR LEGIBLY ON PIPE AND SHALL RUN THE ENTIRE LENGTH OF THE PIPE.
- ALL DUCTILE IRON FORCE MAINS SHALL BE MARKED WITH A CONTINUOUS STRIPE -LOCATED WITHIN THE TOP 90 DEGREES OF THE PIPE. SAID STRIPE SHALL BE A -MINIMUM 2 INCHES IN WIDTH AND SHALL BE GREEN IN COLOR. BACKFILL SHALL NOT BE PLACED FOR 30 MINUTES FOLLOWING PAINT APPLICATION.

LETTERING SHALL READ AS IS ACCEPTABLE FOR THE INTENDED USE.

- 25. RECLAIMED WATERMAINS:
  - A. PVC PIPE: PVC PIPE OF NORMAL DIAMETER OF FOUR (4) THROUGH TWELVE (12) SHALL BE LAVENDER AWWA C900, CLASS 150, SDR 18 AND MUST MEET THE REQUIREMENTS OF ASTM D-1784.
  - B. DUCTILE IRON PIPE: DUCTILE IRON PIPE FOR RECLAIMED WATER FOR PIPE SIZES OF FOUR (4) THROUGH FIFTY FOUR (54) INCHES SHALL CONFORM TO ANSI/AWWA A21-51/C151. A MINIMUM OF CLASS 50 UNLESS OTHERWISE NOTED. TO ASTM D3139

- C. RECLAIMED MAIN JOINT: 1. PVC PIPE SHALL HAVE INTEGRAL BELL PUSH-ON TYPE JOINTS CONFORMING
- TO ASTM D3139 2. JOINTS FOR DUCTILE IRON PIPE AND FITTING SHALL BE THE SAME AS IN NOTE 24-C.2 OF THIS SHEET.
- D. RECLAIMED MAIN FITTINGS: 1. RECLAIMED MAIN FITTING FOR PVC AND DIP SHALL BE THE SAME AS IN NOTE
- ALL NON-METALLIC WATERMAINS SHALL BE INSTALLED WITH A CONTINUOUS INSULATED 10 GAUGE INSULATED COPPER WIRE (RATED FOR 600 V AND FOR DIRECT BURY) INSTALLED DIRECTLY ON TOP OF THE PIPE FOR LOCATION PURPOSES. IN ADDITION ALL PVC WATER MAINS SHALL BE EITHER A SOLID PURPLE COLOR OR WHITE WITH PURPLE LETTERING. ALL LETTERING SHALL APPEAR LEGIBLY ON PIPE AND SHALL RUN THE ENTIRE LENGTH OF THE PIPE. LETTERING SHALL READ AS IS ACCEPTABLE FOR THE INTENDED USE ALL DUCTILE IRON FORCE MAINS SHALL BE MARKED WITH A CONTINUOUS STRIPE LOCATED WITHIN THE TOP 90 DEGREES OF THE PIPE. SAID STRIPE SHALL BE A

MINIMUM 2 INCHES IN WIDTH AND SHALL BE PURPLE IN COLOR. BACKFILL

SHALL NOT BE PLACED FOR 30 MINUTES FOLLOWING PAINT APPLICATION. 26. THE CONTRACTOR SHALL COMPLY WITH THE LEGAL LOAD RESTRICTIONS IN HAULING OF MATERIALS IN PUBLIC ROADS BEYOND THE LIMITS OF WORK. A SPECIAL PERMIT WILL NOT RELIEVE THE CONTRACTOR OF LIABILITY FOR DAMAGE WHICH MAY RESULT FROM THE MOVING OF MATERIAL AND EQUIPMENT.

22-D.1 OF THIS SHEET.

F. MARKING FOR RECLAIMED WATER MAIN:

- 27. DURING CONSTRUCTION, NO DIRECT DISCHARGE OF WATER TO DOWNSTREAM RECEIVING WATERS WILL BE ALLOWED. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING WATER QUALITY, AND ROUTE DISCHARGE WATER IN SUCH A MANNER AS TO ADEQUATELY REMOVE SILT PRIOR TO RUNOFF FROM THE SITE. 28. VALVES:
  - A. BUTTERFLY VALVES ARE REQUIRED ON LINES BEING 16" OR GREATER. B. VALVES 2" AND SMALLER: VALVES SHALL BE BRONZE, WEDGE, DISC, NON-RISING STEM TYPE, 150 PSI MINIMUM WORKING PRESSURE, EQUIPPED WITH WROUGHT STEEL, ALUMINUM OR CAST IRON OPERATING HAND WHEEL. VALVES SHALL MEET FEDERAL SPECIFICATIONS WWV54D, TYPE 1, CLASS A VALVES SHALL BE FIGURE 3FG AS MANUFACTURED BY AMERICAN VALVE
  - COMPANY OR APPROVED EQUAL. C. VALVE BOXES: UNITS SHALL BE SCREW TYPE, CAST IRON. MINIMUM DIAMETER OF 5" WITH COVER CAST WITH THE APPLICABLE INSCRIPTION IN LEGIBLE LETTERING ON THE TOP "WATER". BOXES SHALL BE SUITABLE FOR THE APPLICABLE SURFACE LOADING AND VALVE SIZE DOMESTIC ONLY AND SHALL BE MANUFACTURED BY TYLER COMPANY OR APPROVED EQUAL.
  - D. WASTEWATER AIR/VACUUM-RELEASE VALVE: THE VALVE BODY SHALL BE OF CAST IRON ASTM A126-B; THE FLOAT, FLOOD GUIDE AND STEM SHALL BE OF STAINLESS STEEL TYPE 304. THE RESILIENT SEAT SHALL BE OF BUNA-N THE VALVE SHALL BE SUITABLE FOR 150 PSIg WORKING PRESSURE. VALVE SHALL BE STANDARD TWO (2) INCH NPT INLET AND OUTLET PORTS.
  - E. RESILIENT SEAT GATE VALVES: VALVES SHALL BE RESILIENT SEAT WEDGE TYPE. VALVES SHALL BE FURNISHED WITH O-RING STEM SEALS USING 2 O-RINGS LOCATED ABOVE AND 1 O-RING LOCATED BELOW THE THRUST COLLAR. O-RINGS SHALL BE SET IN THE GROOVES IN THE STEM. INTERNAL AND EXTERNAL SURFACES OF THE VALVE BODY AND BONNET SHALL BE COATED WITH EPOXY TO AWWA C550 STANDARDS. GATES FOR ALL VALVE SIZES SHALL BE COMPLETELY ENCAPSULATED IN RUBBER INCLUDING STEM BORE. VALVES SHALL BE CAPABLE OF INSTALLATION IN ANY POSITION WITH RATED SEALING IN BOTH DIRECTIONS. VALVES SHALL BE STYLE 3067 AS MANUFACTURED BY M&H VALVE COMPANY OR APPROVED EQUAL
  - F. RESILIENT TAPPING VALVES: VALVES SHALL BE FURNISHED WITH THE DESIGN TAPPING FLANGE HAVING A RAISED FACE OR LIP DESIGNED TO ENGAGE THE CORRESPONDING RECESS IN THE TAPPING SLEEVE FLANGE IN ACCORDANCE WITH MSS SP60. TAPPING VALVES WITHOUT THE RAISED FACE ON THE TAPPING FLANGE ARE NOT PERMITTED SINCE THEY DO NOT ASSURE THE PROPER ALIGNMENT REQUIRED TO PREVENT DAMAGE BY A MISALIGNED SHELL CUTTER. THE INTERIOR OF THE WATERWAY IN THE BODY SHALL BE FULL OPENING AND CAPABLE OF PASSING A FULL SIZED SHELL CUTTER EQUAL TO THE NOMINAL DIAMETER OF THE VALVE SHALL BE METROSEAL AS MANUFACTURED BY U.S. PIPE OR APPROVED EQUAL.
  - G. BUTTERFLY VALVES (BFV): VALVES SHALL BE CAST OR DUCTILE IRON BODY ALLOY, CAST IRON OR DUCTILE IRON DISC. VALVE SEAT SHALL BE 18.8 STAINLESS STEEL MADE INTEGRAL WITH THE VALVE BODY, SHAFT SIZE AND OTHER SPECIAL REQUIREMENTS SELECTED IN ACCORDANCE WITH THE SPECIFIC DESIGN AND SHALL COMPLY WITH PROVISIONS OF AWWA C504 RUBBER-SEATED BUTTERFLY VALVES". VALVE OPERATIONS SHALL BE APPROVED GEAR ACTUATORS, WITH SEALED ENCLOSURES FOR BURIED OR SUBMERGED SERVICE. UNITS SHALL BE EQUIPPED WITH ACTUATING NUTS, CAST IRON HANDWHEELS OR CHIN OPERATORS WITH GALVANIZED STEEL CHAINS, AS APPROPRIATE FOR THE INSTALLATION. VALVES SHALL BE STYLE 450 AS MANUFACTURED BY M&H VALVE COMPANY OR APPROVED EQUAL
- 29. CONNECTION TO EXISTING LINES. TO WHICH PIPING OF THIS CONTRACT MUST CONNECT, THE FOLLOWING WORK SHALL BE PERFORMED.
  - A. EXPOSE BURIED LINES TO CONFIRM OR DETERMINE END CONNECTION, PIPE MATERIAL AND DIAMETER.
- B. FURNISHING AND INSTALLING PIPING AND MAKING PROPER CONNECTIONS. 30. THRUST BLOCKS;
  - A. LONGITUDINAL THRUST ALONG PRESSURIZED PIPE LINES AT BENDS, TEES, REDUCERS, AND CAPS OR PLUGS SHALL BE COUNTERACTED BY ENOUGH WEIGHT OF CONCRETE TO COUNTER BALANCE THE VERTICAL AND HORIZONTAL THRUST FORCE. WHERE UNDISTURBED TRENCH WALLS ARE NOT AVAILABLE FOR THRUST BLOCKING, THE CONTRACTOR SHALL FURNISH AND INSTALL SUITABLE PIPE HARNESSES OR TIES DESIGNED AND MANUFACTURED SPECIFICALLY FOR THIS PURPOSE. HARNESSES AND/OR
  - TIES SHALL BE APPROVED BY THE ENGINEER. B. JOINTS SHALL BE PROTECTED BY FELT ROOFING PAPER PRIOR TO PLACING CONCRETE THRUST BLOCK.
  - C. BEARING AREA OF THRUST BLOCKS SHALL BE ADEQUATE TO PREVENT ANY MOVEMENT OF THE FITTING AND SHALL BE OF THE SIZE AND DIMENSIONS AS SHOWN ON THE DRAWINGS.
- D. CONCRETE FOR THRUST BLOCKINGS SHALL BE CLASS C. CONCRETE SHALL BE PLACED AGAINST UNDISTURBED MATERIAL, AND SHALL NOT COVER JOINTS, BOLTS OR NUTS, OR INTERFERE WITH THE REMOVAL OF ANY JOINT. WOODEN SIDE FORMS SHALL BE PROVIDED FOR THRUST BLOCKS. IN LIEU OF THRUST BLOCKING AND WITH THE APPROVAL OF THE ENGINEER, PIPE HARNESSES AND/OR TIES OR RESTRAINED PUSH-ON OR RESTRAINED MECHANICAL JOINTS MAY BE USED.
- E. RESTRAINED JOINTS SHALL BE USED WHERE SHOWN ON THE DRAWINGS. 31. RESTRAINED JOINTS:
- A. SECTIONS OF PIPING DESIGNATED ON THE DRAWINGS AS HAVING RESTRAINED JOINTS OR THOSE REQUIRING RESTRAINED JOINTS SHALL BE CONSTRUCTED USING PIPE AND FITTINGS WITH RESTRAINED "LOCKED-TYPE" JOINTS AND THE JOINTS SHALL BE CAPABLE OF HOLDING AGAINST WITHDRAWAL FOR LINE PRESSURES 50 PERCENT ABOVE THE NORMAL WORKING PRESSURE, BUT NOT LESS THAN 150 PSI. THE PIPE AND FITTINGS SHALL BE SHOWN FOR RESTRAINED PUSH-ON JOINTS OR RESTRAINED MECHANICAL JOINTS ON PAGE 416 IN SECTION VI, IN THE HANDBOOK OF CAST IRON PIPE, 4TH EDITION. MECHANICAL JOINT DUCTILE IRON PIPE RETAINER GLANDS WILL BE PERMITTED ONLY WHEN RESTRAINED JOINTS ARE NOT READILY AVAILABLE
- B. RESTRAINED PIPE JOINTS THAT ACHIEVE RESTRAINT BY INCORPORATING CUT OUT SECTIONS IN THE WALL OF THE PIPE SHALL HAVE A MINIMUM WALL THICKNESS AT THE POINT OF CUT OUT THAT CORRESPONDS WITH THE MINIMUM SPECIFIED THICKNESS FOR THE REST OF THE PIPE.
- C. THE MINIMUM NUMBER OF RESTRAINED JOINTS REQUIRED FOR RESISTING FORCES AT FITTINGS AND CHANGES IN DIRECTION OF PIPE SHALL BE DETERMINED FROM THE LENGTH OF THE RESTRAINED PIPE ON EACH SIDE OF FITTINGS AND CHANGES IN DIRECTION NECESSARY TO DEVELOP RESISTING FRICTION WITH THE SOIL. THE FORMULA AND PARAMETERS GIVEN BELOW SHALL BE USED TO DETERMINE THE MINIMUM REQUIREMENTS.

- D. BOLTS AND NUTS FOR RESTRAINED JOINTS SHALL BE CORTEN, LOW ALLOW, HIGH STRENGTH STEEL
- E. THE CONTRACTOR SHALL ALSO PROVIDE RESTRAINED JOINTS IN ACCORDANCE WITH THE ABOVE CRITERIA WHENEVER THRUST BLOCKS ARE NOT USED IN CONNECTION WITH BELOW GROUND FITTINGS ON LINES 6 INCHES IN DIAMETER OR LESS AND AS APPROVED BY THE ENGINEER.
- 32. PRESSURE AND LEAKAGE TEST OF UNDERGROUND PRESSURE PIPING:
  - A. HYDROSTATIC PRESSURE AND LEAKAGE TEST SHALL CONFORM WITH SECTION 7.3 OF AWWA C605 (PVC) AND SECTION 5.2 OF AWWA C600 (DIP) SPECIFICATION WITH THE EXCEPTION THAT THE CONTRACTOR SHALL FURNISH ALL GAUGES, METERS, PRESSURE PUMPS AND OTHER EQUIPMENT NEEDED TO TEST THE LINE.
- B. THE PRESSURE REQUIRED FOR THE FIELD HYDROSTATIC PRESSURE TEST SHALL BE 50 PERCENT ABOVE THE NORMAL WORKING PRESSURE BUT NOT LESS THAN 150 PSI. THE CONTRACTOR SHALL PROVIDE TEMPORARY PLUGS AND BLOCKING NECESSARY TO MAINTAIN THE REQUIRED TEST PRESSURE. CORPORATION COCKS AT LEAST 3/4" IN DIAMETER, PIPE RISER AND ANGLE GLOBE VALVES SHALL BE PROVIDED AT EACH PIPE DEAD-END IN ORDER TO BLEED AIR FROM THE LINE. DURATION OF PRESSURE TEST SHALL BE AT LEAST TWO HOURS WITH NO DROP IN TEST PRESSURE. THE COST OF THESE ITEMS SHALL BE PAID BY THE CONTRACTOR
- C. THE LEAKAGE TEST SHALL BE CONDUCTED FOLLOWING THE PRESSURE TEST AND SHALL BE OF NOT LESS THAN 2 HOURS DURATION. ALL LEAKS EVIDENT AT THE SURFACE SHALL BE REPAIRED AND LEAKAGE ELIMINATED REGARDLESS OF TOTAL LEAKAGE AS SHOWN BY TEST. LINES WHICH FAIL TO MEET TESTS SHALL BE REPAIRED AND RETESTED AS NECESSARY UNTIL TEST REQUIREMENTS ARE COMPILED WITH. DEFECTIVE MATERIALS, PIPES, VALVES AND ACCESSORIES SHALL BE REMOVED AND REPLACED. THE PIPE LINES SHALL BE TESTED IN SUCH SECTIONS AS MAY BE DIRECTED BY THE ENGINEER BY SHUTTING VALVES OR INSTALLING TEMPORARY PLUGS AS REQUIRED. THE LINES SHALL BE FILLED WITH WATER ALL AIR REMOVED AND THE TEST PRESSURE SHALL BE MAINTAINED IN THE PIPE FOR THE ENTIRE TEST PERIOD BY MEANS OF A FORCE PUMP TO BE FURNISHED BY THE CONTRACTOR. ACCURATE MEANS SHALL BE PROVIDED FOR MEASURING THE WATER REQUIRED TO MAINTAIN THIS
- PRESSURE. THE AMOUNT OF WATER REQUIRED IS A MEASURE OF THE LEAKAGE. D. THE AMOUNT OF LEAKAGE WHICH WILL BE PERMITTED SHALL BE IN ACCORDANCE WITH AWWA C600 STANDARDS FOR ALL PRESSURE. NO PIPE INSTALLATION SHALL BE ACCEPTED IF THE LEAKAGE IS GREATER THAN THE FOLLOWING

THIS FORMULA SHALL BE USED THIS FORMULA SHALL BE USED FOR DUCTILE IRON PIPE (DIP). FOR PVC PIPE (PVC).

ND / P

### WHERE:

- L = ALLOWABLE LEAKAGE (GAL/HOUR)S = LENGTH OF PIPE TESTED (LINEAR FEET) D = NOMINAL DIAMETER OF PIPE (INCHES) P = AVERAGE TEST PRESSURE (PSI)P = 150 PSI FOR WATERMAINS P = 100 PSI FOR FORCEMAINS
- E. THE CONTRACTOR MUST SUBMIT HIS PLAN FOR TESTING TO THE ENGINEER FOR REVIEW AT LEAST TEN (10) DAYS BEFORE STARTING THE TEST. THE CONTRACTOR SHALL REMOVE AND ADEQUATELY DISPOSE OF ALL BLOCKING MATERIAL AND EQUIPMENT AFTER COMPLETION AND ACCEPTANCE OF THE FIELD HYDROSTATIC TEST, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ANY DAMAGE TO THE PIPE COATING SHALL BE REPAIRED BY THE CONTRACTOR. LINES SHALL BE TOTALLY FREE AND CLEAN PRIOR TO FINAL ACCEPTANCE.

## 33. DISINFECTING:

PRIOR TO ACCEPTANCE OF THE LINES, AND PRIOR TO USE OF SAID MAINS OF DOMESTIC PURPOSES, THE CONTRACTOR SHALL FLUSH THE LINE CLEAR OF FOREIGN MATERIAL AND THEN STERILIZE THE PIPELINE, INCLUDING ALL VALVES AND FITTINGS, IN ACCORDANCE WITH AWWA C651.

## 34. CHLORINATION:

THE CHLORINATING AGENT SHALL BE APPLIED AT THE BEGINNING OF THE SECTION ADJACENT OT THE FEEDER CONNECTION AND SHALL BE INJECTED THROUGH A CORPORATION COCK, HYDRANT OR OTHER CONNECTION INSURING TREATMENT OF THE ENTIRE LINE. THE CHLORINATING AGENT SHALL BE ANY COMPOUND SPECIFIED BY SAID AWWA C651 REQUIREMENTS, SUCH AS "HTH" OR OTHER APPROVED CHLORINE-BEARING COMPOUNDS. WATER SHALL BE FED SLOWLY INTO THE NEW LINE WITH CHLORINE APPLIED IN AMOUNTS TO PRODUCE A DOSAGE OF 40 TO 50 PPM AND A RESIDUAL OF NOT LESS THAN 50 PPM IN ALL PARTS OF THE LINE AFTER A 24 HOUR PERIOD HAS ELAPSED. DURING CHLORINATION PROCESS, OPERATE ALL VALVES AND ACCESSORIES

## 35. FLUSHING THE WATER LINE:

CARE SHALL BE TAKEN TO PROVIDE DISINFECTIONS TO THE TOTAL SYSTEM AND EXTREMITIES SHALL BE CAREFULLY FLUSHED TO ACCOMPLISH THIS END.

## 36. CONNECTION TO EXISTING WATER MAINS

- IF CONNECTION OF PROPOSED W.M. WILL RESULT IN DEPRESSURIZATION OF EXISTING WM BELOW 20 PSI. ONE OF THE FOLLOWING SHALL OCCUR: A. PRECAUTIONARY BOIL WATER NOTICE SHALL BE ISSUED, IN ALL AREAS WHERE A INTERRUPTION OF WATER SERVICE THAT HAS BEEN DEEMED A HEALTH THREAT BY D.E.P., OR WILL EFFECT THE BACTERIOLOGICAL QUALITY OF THE EXISTING W.M. B. ADVISORIES SHALL BE ISSUED IF TEMPORARY CHANGES IN WATER QUALITY ARE EXPECTE
- TO OCCUR AND NOT DEEMED AN IMMINENT PUBLIC HEALTH THREAT. 37. FIRE HYDRANTS:

SHALL BE 5-1/4' VALVE OPENING, 42" BURY, 6" MJ SHOE, BRONZE TO BRONZE SEATING, DUCTILE IRON DIRT WEATHER SHIELD, SHOE, UPPER AND LOWER BARREL SHALL BE FUSION COATED PER AWWA C-550.81. DRY BARREL WITH ONE 4-1/2" PUMPER NOZZLE AND TWO 2-1/2' HOSE NOZZLE 1-1/2" PENTAGON N.S.T. RED PAINT FOR WEEP HOLES PLUGGED HYDRANT MEET AWWA C-502.85 AND UL/FM REQUIREMENTS. HYDRANTS SHALL BE MODEL MEDALION AS MANUFACTURED BY CLOW OR APPROVED EQUALALL FIRE HYDRANTS SHALL BE PAINTED AS STATED IN THE APOPKA DESIGN AND CONSTRUCTION MANUAL SEC. 52.7.2

## 38. BLOWOFF HYDRANT:

SHALL BE BOX HYDRANTS HAVING A 2" MAIN VALVE CLOSING WITH THE WATER PRESSURE. 2" FIP INLET WITH THE OUTLET BEING A 2" BRONZE MAIL NOZZLE ALL WORKING PARTS BRONZE, OPEN TO THE LEFT. REMOVABLE BRONZE SEAT WHICH SEALS AGAINST A SEAT RUBBER OF NO LESS DUROMETER THAN 85 WITH LOCKABLE IRON LIDS. BLOWOFF HYDRANTS SHALL BE ECLIPSE MODEL NO. 85B AS MANUFACTURED BY KUPFERLE FOUNDRY COMPANY OR APPROVED EQUAL.

39. LEAKAGE TEST FOR GRAVITY SANITARY SEWERS:

- A. LEAKAGE TEST SHALL BE THE LOW PRESSURE AIR TEST OR LEAKAGE/INFILTRATION. IN GENERAL, LEAKAGE/INFILTRATION TEST MAY BE REQUIRED IN AREA WITH GROUNDWATER. MAXIMUM INFILTRATION IS 0.2 GALLONS PER HOUR, PER INCH DIAMETER, PER 100 FEET. MANHOLE MAY BE TESTED SIMULTANEOUSLY WITH HYDROSTATIC TEST. BY FILLING MANHOLE WITH WATER TO AN ELEVATION 1 FOOT BELOW THE START OF THE CONE SECTION WITH A MINIMUM DEPTH OF 20 FEET WHERE THE MANHOLES ARE TESTED WITH THE SEWER LINE NO ADDITIONAL LEAKAGE WILL BE ALLOWED ABOVE THAT FOR THE MAINLINE SEWER. THE MAXIMUM ALLOWABLE DROP IN THE WATER SURFACE SHALL BE 1/2 INCH FOR EACH 15 MINUTES PERIOD OF TESTING.
- B. THE AIR LEAKAGE TEST 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 ASSN. PASSING THIS TEST, SHALL BE PRESUMED TO ESTABLISH LEAKAGE TEST LIMITS OF 50 GALLONS PER DAY PER INCH DIAMETER PER MILE SEWER.
- C. INTERNAL VIDEO INSPECTION FOR THE GRAVITY SEWER SHALL BE PERFORMED BY THE CONTRACTOR TO CHECK FOR ALIGNMENT AND DEFLECTION. THE TELEVISION INSPECTION SHALL ALSO BE USED TO CHECK FOR CRACKED, BROKEN OR OTHERWISE DEFECTIVE PIPE, AND OVERALL PIPE INTEGRITY.

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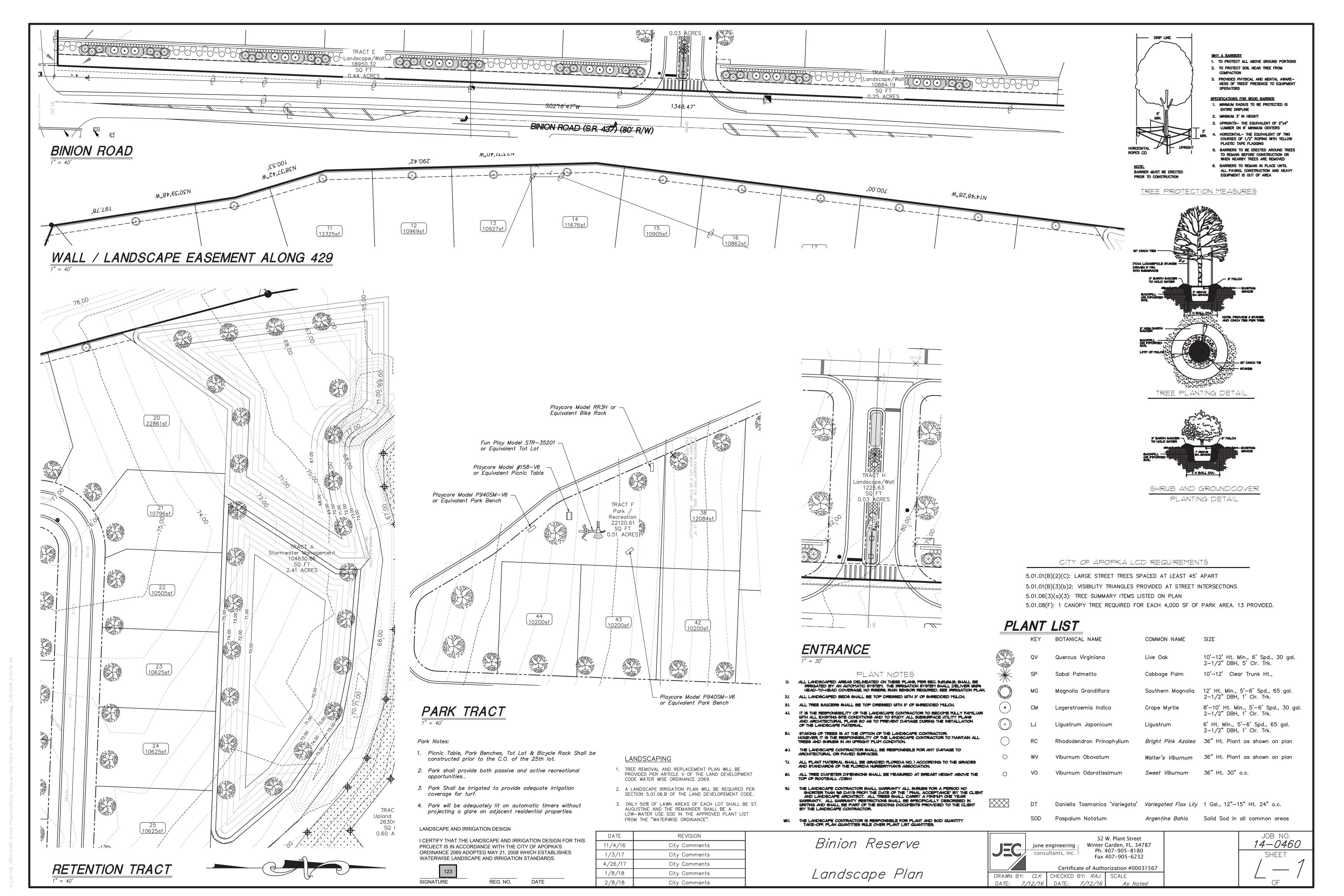
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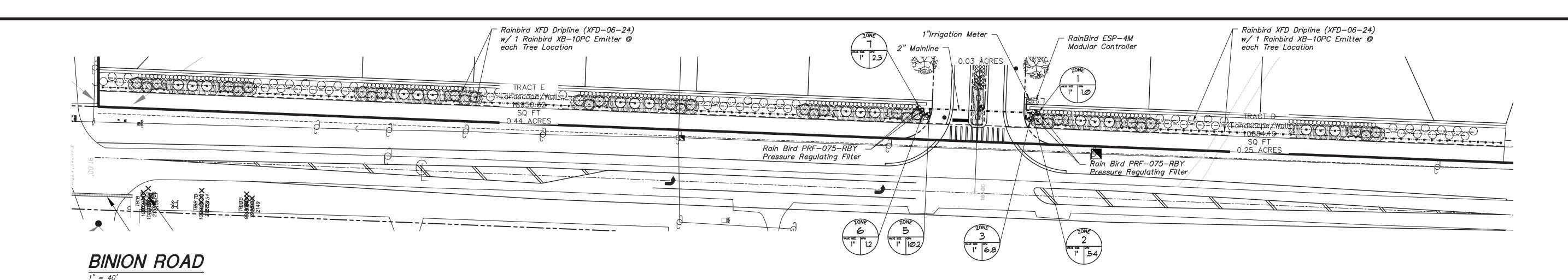
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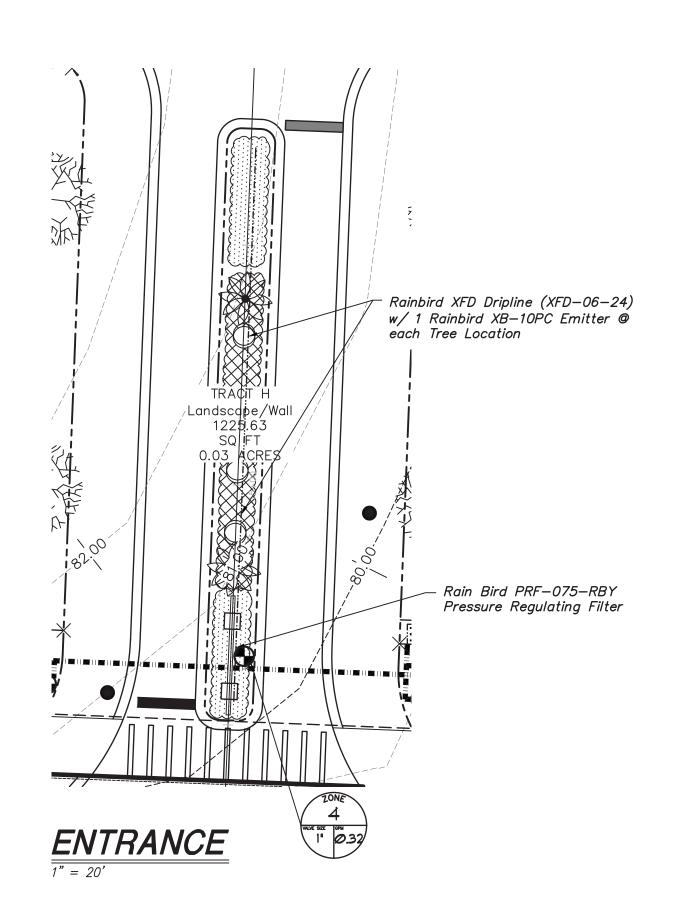
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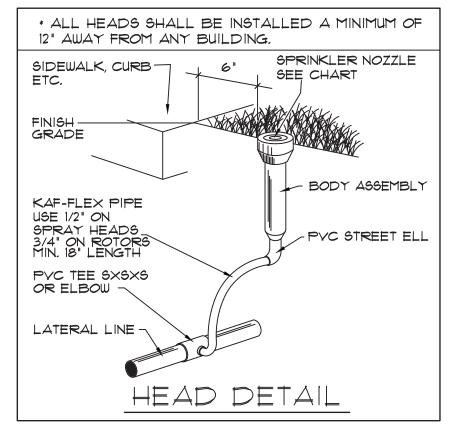
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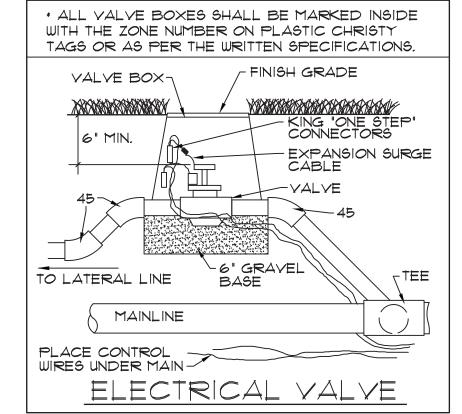
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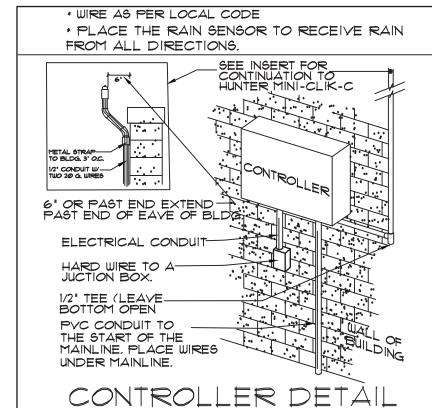












#### <u>Irrigation Notes:</u>

1) REFER TO THE LANDSCAPE PLANS WHEN TRENCHING TO AVOID TREES AND SHRUBS. HAND DIG AROUND ANY EXISTING TREES. DO NOT CUT ANY ROOTS OVER 2" IN DIAMETER.

2) ALL MAINLINE PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 18" OF COVER. ALL LATERAL PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 12" OF COVER. 3) ALL POP-UP ROTORS AND SPRAYS SHALL BE INSTALLED USING AN 18" PVC FLEX PIPE CONNECTION. DO NOT USE

POLYETHLENE PIPE. 4) ADJUST ALL NOZZLES TO REDUCE WATER WASTE ON HARD SURFACES & BLDG. WALLS. THROTTLE ALL VALVES ON SHRUB LINES AS REQUIRED TO PREVENT FOGGING. USE ADJUSTABLE NOZZLES WHERE REQUIRED TO AVOID ANY WATER ON

5) ALL VALVES, GATE VALVES AND QUICK COUPLERS SHALL BE INSTALLED IN VALVE BOXES. THE VALVE BOXES SHALL

BE PURPLE WHEN USING REUSE WATER. 6) THE CONTRACTOR SHALL EXERCISE CARE SO AS NOT TO DAMAGE ANY EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REPAIRS AND COST OF ANY DAMAGE CAUSED BY THEIR WORK.

7) ALL WORK SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE AGAINST ALL DEFECTS IN EQUIPMENT AND WORKMANSHIP. (OR AS OUTLINED IN THE WRITTEN SPECIFICATIONS) 8) ELECTRICAL SERVICE TO LOCATION OF THE CONTROLLER, WELL OR PUMP SHALL BE PROVIDED TO A JUNCTION BOX OR DISCONNECT AT THE EQUIPMENT LOCATION BY THE ELECTRICAL CONTRACTOR OR BY OWNER WHEN IT IS NOT PART OF

9) IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SCALE THE PLAN AND CHECK NOZZLE TYPES TO DETERMINE THE CORRECT SPACING OF THE HEADS. THE CONTRACTOR SHALL NOT SPACE THE HEADS FURTHER APART OR USE LESS HEADS THAN SHOWN ON THE PLAN. ANY CHANGES TO THE HEAD SPACING OR LAYOUT, WITHOUT THE CONSENT OF THE LANDSCAPE ARCHITECT OR OWNER, SHALL HOLD THE IRRIGATION CONTRACTOR RESPONSIBLE FOR WARRANTY OF THE PLANTS AND OR SOD IN THESE AREAS.

10) 48 HOURS BEFORE DIGGING, CALL 1-800-432-4770 (SUNSHINE STATE ONE CALL CENTER)

11) IRRIGATION RISERS ARE NOT PERMITTED.

12) ALL GRASS AREAS SHALL BE TRUCK IRRIGATED FOR THE FIRST 30 DAYS OR UNTIL GRASS HAS BEEN ESTABLISHED.

13) ALL PLANT BEDS AND TURF AREAS NEED TO BE ON SEPARATE ZONES.

14) LOW VOLUME IRRIGATION NEEDS TO BE USED FOR PLANT BEDS, SHRUBS AND TREE IRRIGATION.

15) IRRIGATION DISTRIBUTION EQUIPMENT TO BE 24 INCHES FROM VERTICAL STRUCTURES.

## RE-USE WATER REQUIREMENTS

1) ALL PIPE SHALL BE THE PURPLE REUSE TYPE. ALL MAINLINE SHALL HAVE MAGNETIC MARKER TAPE PLACED IN THE TRENCH 6" ABOVE PIPE.

2) ALL SPRINKLER HEADS SHALL HAVE PURPLE INDICATORS TO ALERT THE PRESENCE OF RE-USE 3) WATER. ALL MANUAL AND ELECTRIC VALVES SHALL HAVE PURPLE INDICATORS TO ALERT THE

4) OF RE-USE WATER. ALL VALVE BOXES SHALL HAVE PURPLE LIDS TO INDICATE THE PRESENCE OF

5) ALL EQUIPMENT SHALL BE INSTALLED AS PER ALL LOCAL, COUNTY, STATE, AND FEDERAL CODES. 6) PROVIDE AND INSTALL ALL REQUIRED REUSE SIGNS. ALL CROSSINGS OF IRRIGATION PIPING AND POTABLEWATER LINES SHALL HAVE THE VERTICAL SEPARATION OF 6 INCHES MINIMUM AND PREFERABLY 12

7) CLEARANCE VISUALLY VERIFIED AND THIS VERIFICATION MUST BE SHOWN ON THE ASBUILT DRAWINGS BY DOCUMENTING THE VERTICAL MEASUREMENT SEPARATING THE PIPES. THE VERTICAL SEPARATION BETWEEN THE POTABLE AND RE-USE WATER LINES SHALL BE A MINIMUM OF 18". THIS SEPARATION SHALL BE VERIFIED AND DOCUMENTED IN A SET OF ASBUILT DRAWINGS AS PER SPECIFICATIONS. THE HORIZONTAL SEPARATION SHALL BE 5' CENTER TO CENTER AND 3' OUTSIDE TO OUTSIDE IF VERTICAL MINIMUM OF 18" IS NOT MET. REFER TO THE SPECIFIC CODE IF THESE SEPARATIONS CAN NOT BE MET.

Nozzle Zone Chart				
Zone #	Туре	GPM	Run Time	GPD
1	Drip/Bubbler	1.0	20 Min.	20
2	Drip/Bubbler	0.54	20 Min.	10.8
3	Drip/Bubbler	6.8	20 Min.	136.0
4	Drip/Bubbler	0.32	20 Min.	6.4
5	Drip/Bubbler	10.2	20 Min.	204.0
6	Drip/Bubbler	1.2	20 Min.	24.0
7	Drip/Bubbler	2.3	20 Min.	46.0
Total 2Hr 20Min 447.2				

	NOZ	ZLE CHART		
Symbol	Description	Pressure	Flow	Radius
• A	Rain Bird SQ-HLF (Low Volume)	40 psi	0.17 gpm	4 Ft
<b>●</b> B	Rain Bird SQ—FUL (Low Volume)	40 psi	0.46 gpm	4 Ft
	Rain Bird XB—10PC Emitter	40 psi	0.017 gpm	

Irrigation Legend				
	Rainbird XFD Dripline (XFD-06-24)			
	PVC Lateral Line			
	2" PVC Main Line			
•	Nozzle Location — See Chart for Specifications			
<u>M</u>	Irrigation Meter			
( <u>C</u> )	RainBird ESP Controller			
(B)	Backflow Preventer			
•	Rain Bird 100—PGA Series Valve Installed in Ametek 10" Round Valve Box			
	Rain Bird DV Series Valve			

LANDSCAPE AND IRRIGATION DESIGN

I CERTIFY THAT THE LANDSCAPE AND IRRIGATION DESIGN FOR THIS PROJECT IS IN ACCORDANCE WITH THE CITY OF APOPKA'S ORDINANCE 2069 ANOPTED MAY 21, 2008 WHICH ESTABLISHES WATERWISE LANDSCAPE AND IRRIGATION STANDARDS.

SIGNATURE

DATE REG. NO.

(Size Shown on Zone Label) Installed in Ametek 10" Round Valve Box (Pressure Regulating Valve)

DATE	REVISION
11/4/16	City Comments
1/3/17	City Comments
2/8/18	City Comments

Binion Reserve

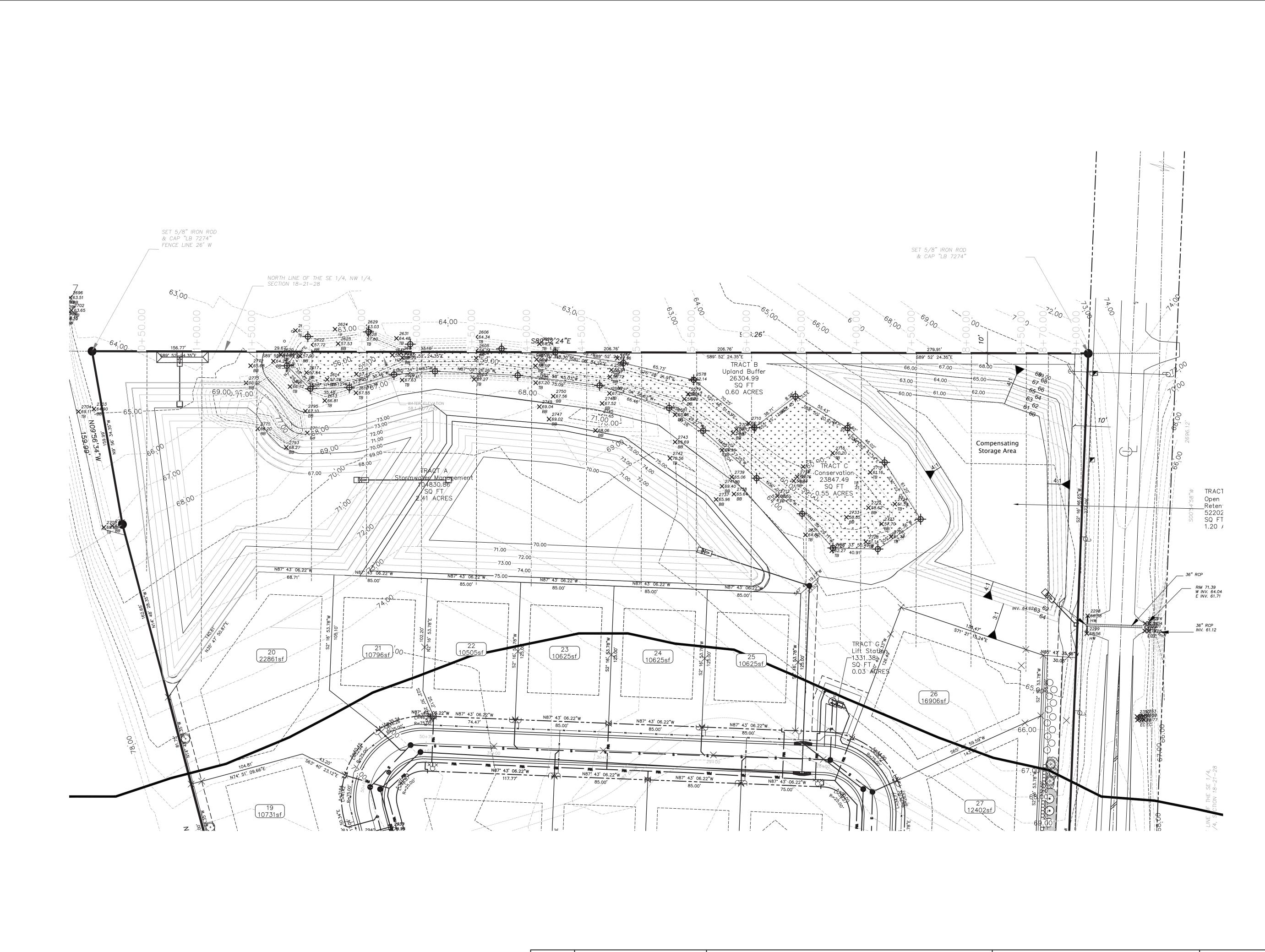
june engineering | consultants, inc.

32 W. Plant Street Winter Garden, FL. 34787 Ph. 407-905-8180 Fax 407-905-6232

JOB NO. 14-0460 SHEET

Certificate of Authorization #00031567 DRAWN BY: CLK | CHECKED BY: RAJ | SCALE DATE: 7/12/16 DATE: 7/12/16

Irrigation Plan

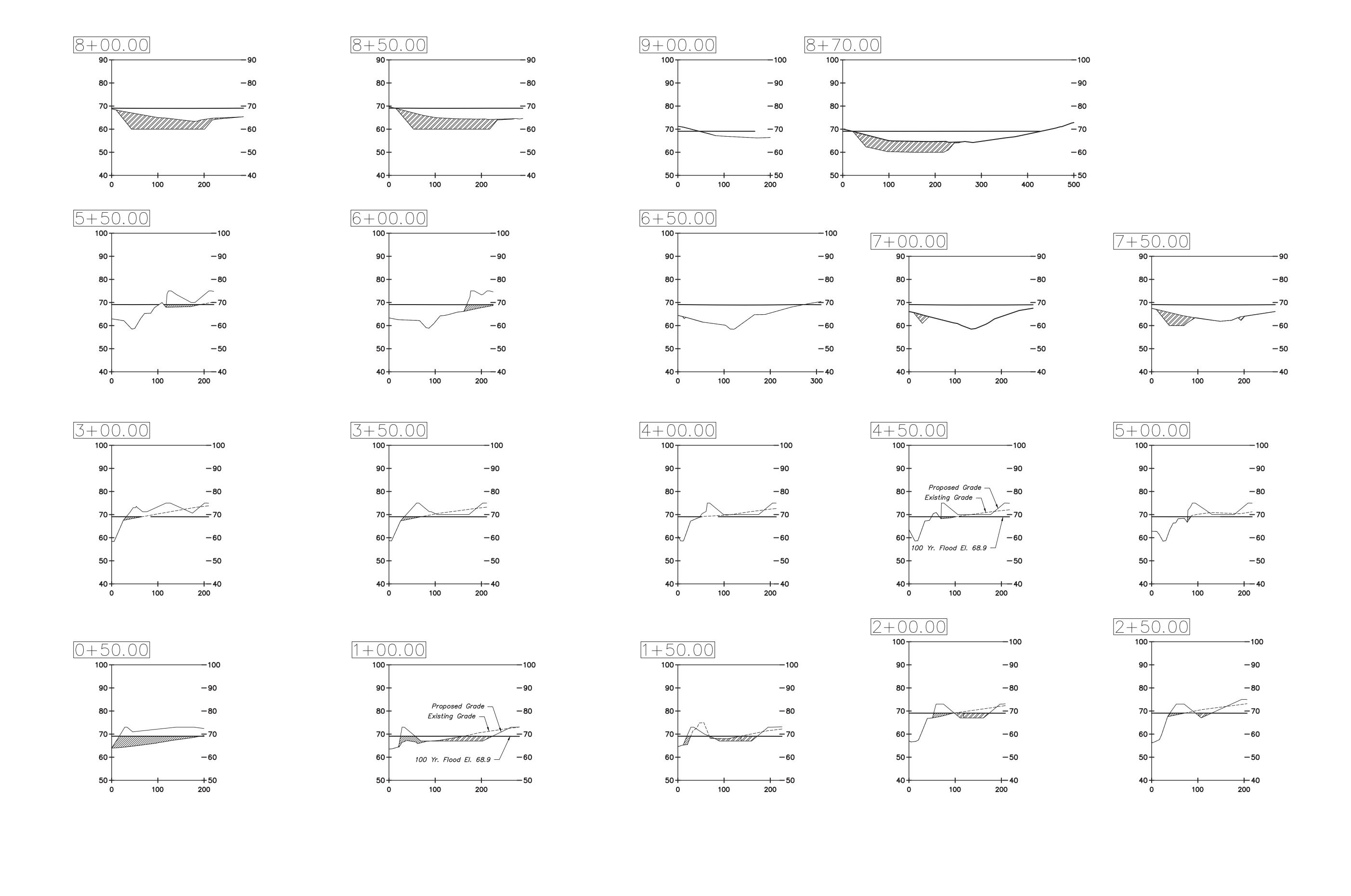


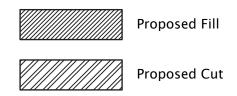
DATE REVISION 10/27/16 SJRWMD Comments

Binion Reserve Compensating Storage DRAWN BY: *CLK* CHECKED BY: *RAJ* SCALE DATE: 12/23/15 DATE: 12/23/15 1"

32 W. Plant Street Winter Garden, FL. 34787 Ph. 407–905–8180 Fax 407–905–6232 Certificate of Authorization #00031567

JOB NO. 14-0460 SHEET JEFFREY A. SEDLOFF PE# 51506





DATE REVISION

10/27/16 SJRWMD Comments

11/4/16 City Comments

Binion Reserve

FEMA Sections

June engineering june engineering consultants, inc.

| Second Consultants | Second Consultant

1567

JEFFREY A. SEDLOFF
PE# 51506

JOB NO. 14-0460 SHEET CS-2

# BINION RESERVE

SHEET 1 OF 3

A PART OF SECTION 18, TOWNSHIP 21 SOUTH, RANGE 28 EAST CITY OF APOPKA, ORANGE COUNTY, FLORIDA

DESCRIPTION

THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4, SECTION 18, TOWNSHIP 21 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA;

S. BINION ROAD (aka S.R. 437A) AND ALSO LESS SEABOARD COAST LINE RAILROAD;

AND LESS

A PARCEL OF LAND SITUATE IN SECTION 18, TOWNSHIP 21 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA; MORE PARTICULARLY DESCRIBED

COMMENCE AT A 4 INCH BY 4 INCH CONCRETE MONUMENT STAMPED "L.F. HENRICH R.L.S. NO. 1263 P.R.M. MAITLAND, FLA." AS SHOWN ON PLAT OF SURVEY BY HENRICH INC. LAND SURVEYORS DATED 11–19–73 AND BOUNDARY SURVEY BY P.E.C. FOR S.J.R.W.M.D. LAST DATED 8–10–98 MARKING THE NORTHWEST CORNER OF SAID SECTION 18; THENCE RUN NORTH 89\*39'46" EAST 1,320.44 FEET ALONG THE NORTH LINE OF SAID SECTION 18 TO THE WEST BOUNDARY OF THE EAST 1/2 OF THE NORTHWEST 1/4 OF SAID SECTION 18, AS SHOWN ON P.E.C. S.J.R.W.M.D. SURVEY; THENCE SOUTH 01\*03'27" WEST 1,337.48 FEET ALONG SAID WEST BOUNDARY LINE TO A POINT ON THE NORTH LINE OF THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4 OF SAID SECTION 18; THENCE DEPARTING SAID WEST BOUNDARY LINE, RUN ALONG SAID NORTH LINE, SOUTH 89\*52'24" EAST 39.26 FEET TO POINT OF BEGINNING; THENCE CONTINUE ALONG SAID NORTH LINE, SOUTH 89\*52'24" EAST 306.42 FEET; THENCE DEPARTING SAID NORTH LINE, SOUTH 09\*56'34" EAST 159.99 FEET; THENCE SOUTH 14\*48'28" EAST 700.00 FEET; THENCE SOUTH 23\*31'40" EAST 290.42 FEET; THENCE SOUTH 38\*37'42" EAST 100.53 FEET; THENCE SOUTH 30\*39'48" EAST 197.78 FEET TO THE NORTH LINE OF THE SOUTHWEST 1/4 OF SAID SECTION 18; THENCE NORTH 89\*58'47" WEST 796.70 FEET ALONG SAID NORTH LINE OF THE SOUTHWEST 1/4 TO THE EASTERLY RIGHT OF WAY LINE OF FORMER S.C.L.R.R. AS MONUMENTED FOR S.J.R.W.M.D. BY P.E.C.; THENCE NORTH 01\*03'18" EAST 174.53 FEET ALONG SAID EASTERLY RIGHT OF WAY LINE; THENCE DEPARTING SAID EASTERLY RIGHT OF WAY LINE, RUN SOUTH 89\*53'41" EAST 295.19 FEET; THENCE NORTH 14\*33'12" WEST 573.59 FEET; THENCE NORTH 07\*06'24" WEST 100.81 FEET; THENCE NORTH 14\*48'28" WEST 538.38 FEET TO THE POINT OF BEGINNING.

#### AND ALSO LESS;

A PARCEL OF LAND SITUATE IN SECTION 18, TOWNSHIP 21 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA; MORE PARTICULARLY DESCRIBED

COMMENCE AT A 4 INCH BY 4 INCH CONCRETE MONUMENT STAMPED "L.F. HENRICH R.L.S. NO. 1263 P.R.M. MAITLAND, FLA." AS SHOWN ON PLAT OF SURVEY BY HENRICH INC. LAND SURVEYORS DATED 11—19—73 AND BOUNDARY SURVEY BY P.E.C. FOR S.J.R.W.M.D. LAST DATED 8—10—98 MARKING THE NORTHWEST CORNER OF SAID SECTION 18; THENCE RUN NORTH 89°39'46" EAST 1,320.44 FEET ALONG THE NORTH LINE OF SAID SECTION 18 TO THE WEST BOUNDARY OF THE EAST 1/2 OF THE NORTHWEST 1/4 OF SAID SECTION 18, AS SHOWN ON P.E.C. S.J.R.W.M.D. SURVEY; THENCE SOUTH 01°03'27" WEST 1,337.48 FEET ALONG SAID WEST BOUNDARY LINE TO A POINT ON THE NORTH LINE OF THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4 OF SAID SECTION 18; THENCE DEPARTING SAID WEST BOUNDARY LINE, RUN ALONG SAID NORTH LINE, SOUTH 89°52'24" EAST 39.26 FEET; THENCE DEPARTING SAID NORTH LINE, RUN SOUTH 14°48'28" EAST 538.38 FEET; THENCE SOUTH 07°06'24" EAST 100.81 FEET; THENCE SOUTH 14°33'12" EAST 573.59 FEET; THENCE NORTH 89°53'41" WEST 295.19 FEET TO A POINT ON THE EASTERLY RIGHT OF WAY LINE OF FORMER S.C.L.R.R. AS MONUMENTED FOR S.J.R.W.M.D. BY P.E.C.; THENCE NORTH 01°03'18" EAST 880.37 FEET ALONG SAID EASTERLY RIGHT OF WAY LINE TO A POINT ON A TANGENT CURVE (CONCAVE SOUTHWESTERLY); THENCE FROM A CHORD BEARING OF NORTH 10°27'51" WEST, RUN NORTHWESTERLY ALONG SAID CURVE, HAVING A RADIUS OF 751.20 FEET FOR AN ARC DISTANCE OF 302.06 FEET, THROUGH A CENTRAL ANGLE OF 23°02'20" TO END OF CURVE AND POINT OF BEGINNING.

CONTAINING 21.396 ACRES, MORE OR LESS.

BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

THAT PART OF SOUTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 18, TOWNSHIP 21 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA,

COMMENCE AT THE CENTER SECTION OF SAID SECTION 18; THENCE RUN N89°58'47"W, ALONG THE SOUTH LINE OF SAID SOUTH 1/4 OF THE NORTHWEST 1/4, 89.04 FEET, TO THE POINT OF BEGINNING; THENCE CONTINUE N89°58'47"W, ALONG SAID SOUTH LINE OF SAID SOUTH 1/4 OF THE NORTHWEST 1/4, 366.58 FEET, TO THE EASTERLY RIGHT OF WAY LINE OF STATE ROAD NO. 429; THENCE RUN NORTHERLY ALONG SAID EASTERLY RIGHT OF WAY LINE THE FOLLOWING 5 COURSES: N30°39'48"W, 197.78 FEET; THENCE RUN N38°37'42"W, 100.53 FEET; THENCE RUN N23°31'40"W, 290.42 FEET; THENCE RUN N14°48'28"W, 700.00 FEET; THENCE RUN N09°56'34"W, 159.99 FEET, TO THE NORTH LINE OF SAID SOUTHEAST 1/4 OF THE NORTHWEST 1/4; THENCE RUN S89°52'24"E, ALONG SAID NORTH LINE, 906.26 FEET, TO THE WESTERLY RIGHT OF WAY LINE OF COUNTY ROAD NO. 437 (ROAD PLAT BOOK 1, PAGES 40–43, PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA); THENCE RUN S02°16'47"W, ALONG SAID WESTERLY RIGHT OF WAY LINE, 1325.34 FEET TO A CURVE CONCAVE EASTERLY; THENCE RUN SOUTHERLY ALONG SAID CURVE HAVING A CENTRAL ANGLE OF 00°13'47", A RADIUS OF 5769.65 FEET, AN ARC LENGTH OF 23.13 FEET, A CHORD BEARING OF S02°09'53"W AND A CHORD DISTANCE OF 23.13 FEET

CONTAINING 21.396 ACRES, MORE OR LESS.

CERTIFICATE OF AUTHORIZATION LB 7274

*32 W. PLANT STREET* Phone No. 407.905.8877

WINTER GARDEN, FL 34787 Fax No. 407.905.8875

NOTES:

CITY OF APOPKA.

1. BEARINGS SHOWN HEREON ARE BASED ON THE SOUTH LINE OF THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4, SECTION 18, TOWNSHIP 21 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA, AS N89°58'47"W (ASSUMED).

2. LOT LINES ARE RADIAL UNLESS NOTED WITH (NR) FOR NOT RADIAL.

3. TRACT A (STORMWATER MANAGEMENT TRACT), SHALL BE CONVEYED TO AND MAINTAINED BY THE BINION RESERVE HOMEOWNERS ASSOCIATION. SAID TRACT IS SUBJECT TO A DRAINAGE EASEMENT IN FAVOR OF THE CITY OF APOPKA, OVER THE ENTIRE TRACT.

4. THE CITY OF APOPKA SHALL BE RESPONSIBLE FOR THE OWNERSHIP AND MAINTENANCE OF THE STORM STRUCTURES, PIPING AND MITERED END SECTIONS LOCATED WITHIN THE STORMWATER PONDS AND THE BINION RESERVE HOMEOWNERS ASSOCIATION WILL BE RESPONSIBLE FOR THE OWNERSHIP AND MAINTENANCE OF THE UNDERDRAIN SYSTEM WITHIN THE DEVELOPMENT.

5. TRACT B (UPLAND BUFFER TRACT) SHALL BE CONVEYED TO AND MAINTAINED BY THE BINION RESERVE HOMEOWNERS ASSOCIATION WITH A CONSERVATION EASEMENT OVER THE ENTIRE TRACT DEDICATED TO ST. JOHNS RIVER WATER MANAGEMENT DISTRICT..

6. TRACT C (CONSERVATION TRACT), SHALL BE CONVEYED TO AND MAINTAINED BY BINION RESERVE HOMEOWNERS ASSOCIATION. THE DEVELOPMENT RIGHTS TO THE CONSERVATION TRACT SHALL BE DEDICATED TO THE CITY OF APOPKA.

7. TRACT D, E AND H (LANDSCAPE AND WALL TRACTS), SHALL BE CONVEYED TO AND MAINTAINED BY BINION RESERVE HOMEOWNERS ASSOCIATION.

8. TRACT F (PARK AND RECREATION TRACT) SHALL BE CONVEYED TO AND MAINTAINED BY THE BINION RESERVE HOMEOWNERS ASSOCIATION.

9. TRACT G (LIFT STATION TRACT) SHALL BE CONVEYED AND MAINTAINED BY THE

10. TRACT I (OPEN SPACE/RETENTION TRACT) SHALL BE OWNED AND MAINTAINED BY THE BINION RESERVE HOMEOWNERS ASSOCIATION.

11 THERE IS A 10.00' DRAINAGE & UTILITY EASEMENT (DUE) ON ALL FRONT LOT LINES, AS SHOWN HEREON.

12. THERE IS A 5.00' DRAINAGE AND UTILITY EASEMENT (DUE) ON ALL SIDE LOT LINES, AS SHOWN HEREON.

13. THERE IS A 7.50' DRAINAGE AND UTILITY EASEMENT (DUE) ON ALL REAR LOT LINES, AS SHOWN HEREON.14. THE 5.00' DRAINAGE AND UTILITY EASEMENT (DUE) AROUND THE LIFT STATION

(TRACT G) IS GRANTED TO THE CITY OF APOPKA FOR THE MAINTENANCE OF THE LIFT STATION WALLS.

15. THE SIDEWALK EASEMENT RUNNING ALONG BINION ROAD IS DEDICATED TO THE

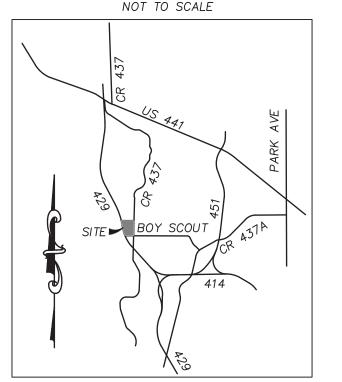
CITY OF APOPKA.

16. STREET TREES ARE TO BE PLANTED IN THE LANDSCAPE EASEMENT.

17. ALL UTILITY 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 DAMAGES THE FACILITIES OF A PUBLIC UTILITY, IN WHICH CASE THE CABLE TELEVISION COMPANY SHALL BE SOLELY RESPONSIBLE FOR THE DAMAGES.

18. THERE ARE 44 LOTS AND 9 TRACTS IN THIS SUBDIVISION.

VICINITY MAP



SURVEYORS NOTES:

1. NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

2. THE ELECTRONIC FILE FOR THIS PROJECT IS THE PROPERTY OF BISHMAN SURVEYING AND MAPPING, INC. AND IS NOT THE PROPERTY OF THE CLIENT.

NOTICE: TH THE SUBDIV IN AUTHORI ADDITIONAL IN THE PUB

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.

NOTES:

DENOTES SET PERMANENT REFERENCE MONUMENT, A 4"x4" CONCRETE MONUMENT "PRM LB 7274", UNLESS NOTED OTHERWISE.

DENOTES SET PERMANENT CONTROL POINT, A NAIL AND DISC "PCP LB 7274", UNLESS NOTED OTHERWISE. LEGEND

△ CENTRAL ANGLE
R RADIUS LENGTH
L ARC LENGTH
T TANGENT LENGTH

CB CHORD BEARING
CH CHORD LENGTH
PC POINT OF CURVATURE

PRC POINT OF REVERSE CURVE
PCC POINT OF COMPOUND CURVE
RP RADIUS POINT
PI POINT OF INTERSECTION

PT POINT OF TANGENCY

POB POINT OF BEGINNING
POC POINT OF COMMENCEMENT

(R) RADIAL
OR OFFICIAL RECORDS BOOK
PG PAGE

PB PLAT BOOK

← CENTERLINE
 LICENSED BUSINESS
 DE DRAINAGE EASEMENT

UE UTILITY EASEMENT
DUE DRAINAGE & UTILITY EASEMENT
LE LANDSCAPE EASEMENT
(TYP.) TYPICAL

R/W RIGHT OF WAY
PCP PERMANENT CONTROL POINT
PRM PERMANENT REFERENCE MONUMENT
WLE WALL/LANDSCAPE EASEMENT
— DENOTES CHANGE IN DIRECTION

PLAT BOOK

PAGE

## BINION RESERVE DEDICATION

IN WITNESS THEREOF, HAS CAUSED THESE PRESENTS TO BE SIGNED AND ATTESTED

KNOW ALL MEN BY THESE PRESENTS, THAT ROHLAND A. JUNE, DIRECTOR OF FLORIDAY PROPERTIES, INC., BEING THE OWNER IN FEE SIMPLE OF THE LANDS DESCRIBED IN THE FOREGOING CAPTION TO THIS PLAT, HEREBY DEDICATES THE LIFT STATION AND ROADS AS SHOWN HEREON TO THE PERPETUAL USE OF THE PUBLIC.

3Y:					
	ROHLAND	A.	JUNE,	DIRECTOR	

TO BY THE OFFICERS NAMED BELOW ON THIS

SIGNED IN THE PRESENCE OF:

SIGN NAME: SIGN NAME:

STATE OF FLORIDA
COUNTY OF ORANGE

PRINT NAME:

THE FORGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 2016, BY ROHLAND A. JUNE, DIRECTOR, WHO IS PERSONALLY KNOWN TO ME AND DID NOT TAKE AN OATH, THE INDIVIDUAL DESCRIBED IN AND WHO EXECUTED THE FOREGOING CONVEYANCE AND ACKNOWLEDGED THE EXECUTION THEREOF TO BE HIS FREE ACT.

PRINT NAME:

NOTARY PUBLIC
MY COMMISSION EXPIRES:

#### QUALIFICATION AND STATEMENT OF SURVEYOR AND MAPPER

KNOW ALL MEN BY THESE PRESENTS, THAT THE UNDERSIGNED, BEING A PROFESSIONAL SURVEYOR AND MAPPER CERTIFIES THAT I HAVE PREPARED THE FOREGOING PLAT AND IT WAS MADE UNDER MY DIRECTION AND SUPERVISION AND THAT THE PLAT COMPLIES WITH ALL OF THE SURVEY REQUIREMENTS OF CHAPTER 177, FLORIDA STATUES; AND THAT SAID LAND IS LOCATED IN, THE CITY OF APOPKA, ORANGE COUNTY, FLORIDA.

ıted:	Signed	

BISHMAN SURVEYING AND MAPPING, INC.

32 WEST PLANT STREET

WINTER GARDEN, FLORIDA 34787

ARON D. BISHMAN, P.S.M.
Florida Registration No. 5668

Licensed Business No. 7274

## CERTIFICATE OF APPROVAL BY MUNICIPALITY

THIS IS TO CERTIFY, THAT ON \_\_\_\_\_\_\_, THE CITY COUNCIL THE CITY OF APOPKA APPROVED THE FOREGOING PLAT.

ATTEST:

JOE KILSHEIMER, MAYOR CITY CLERK

## CERTIFICATE OF APPROVAL BY CITY ENGINEER

THIS IS TO CERTIFY, THAT ON \_\_\_\_\_\_,
FOREGOING PLAT WAS EXAMINED AND APPROVED BY

R. JAY DAVOLL, CITY ENGINEER

## CERTIFICATE OF APPROVAL 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.

RALPH A. NIETO, P.S.M. DATE NIETO WHITTAKER SURVEYING, LLC REGISTRATION NO. 6025

## CERTIFICATE OF APPROVAL BY APOPKA PLANNING COMMISSION

THIS IS TO CERTIFY, THAT ON \_\_\_\_\_\_, THE FOREGOING PLAT WAS APPROVED BY THE APOPKA PLANNING COMMISSION OF THE CITY OF APOPKA.

CHAIRMAN DATE

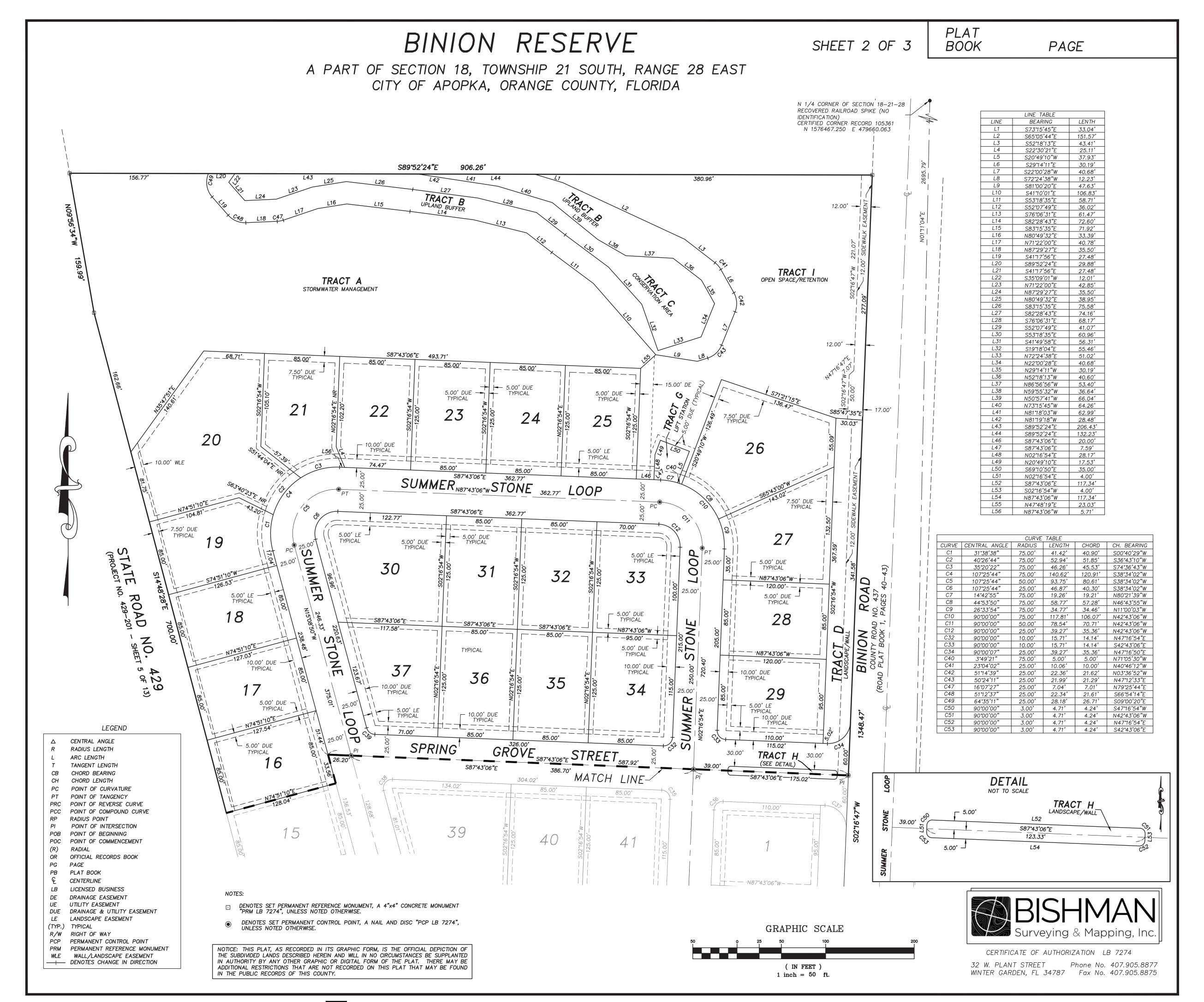
CERTIFICATE OF APPROVAL BY THE COUNTY COMPTROLLER

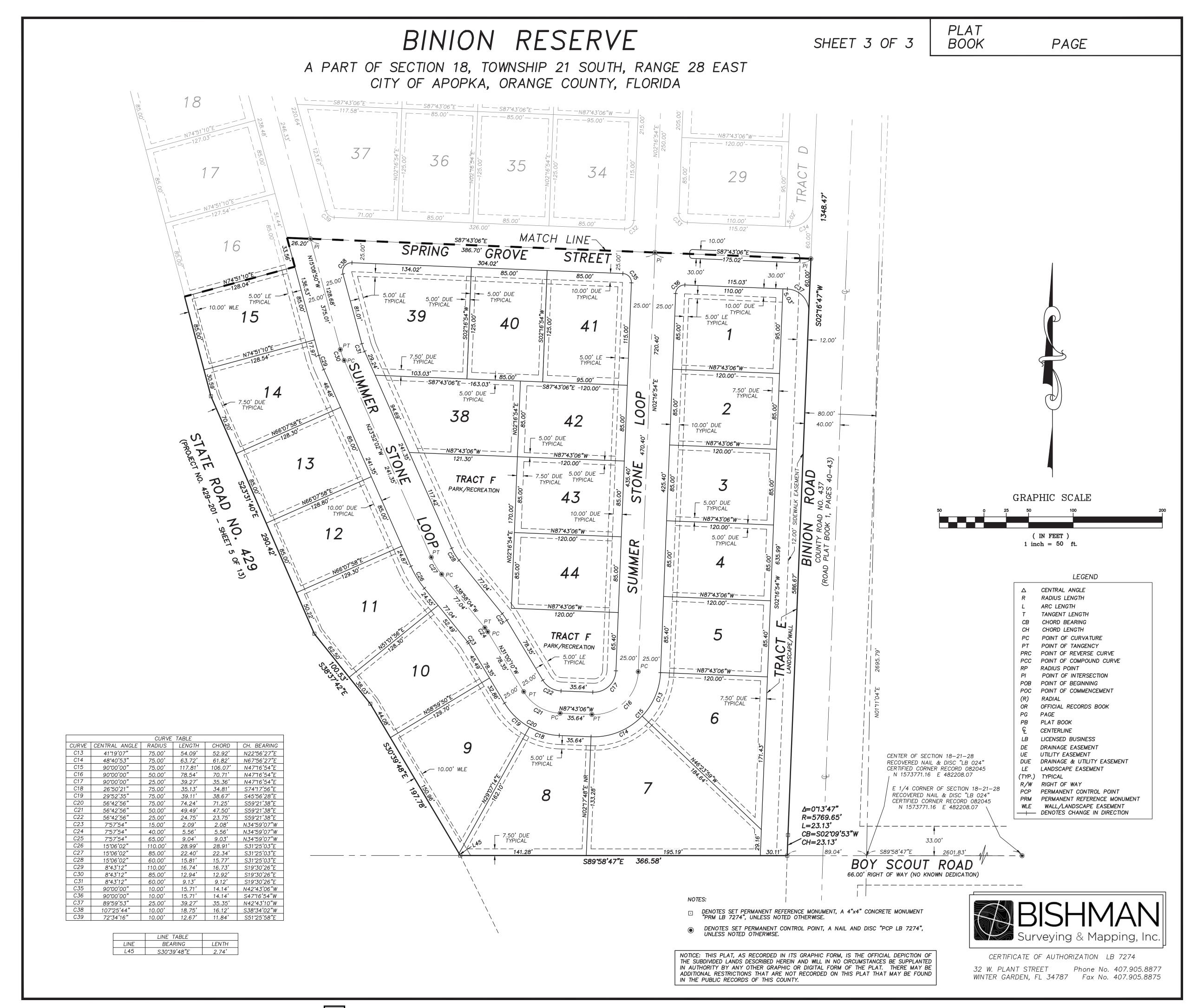
I HEREBY CERTIFY THAT THE FORGOING PLAT WAS RECORDED IN
THE ORANGE COUNTY OFFICIAL RECORDS ON \_\_\_\_\_\_

AS FILE NO. \_\_\_\_\_COUNTY COMPTROLLER IN

AND FOR ORANGE COUNTY, FLORIDA BY\_\_\_\_\_







Planning Commission March 13, 2018 Page 130

### Backup material for agenda item:

5. FINAL DEVELOPMENT PLAN/PLAT – LAKE GEM COMMERCE PARK - Owned by Property Industrial Enterprises, LLC, c/o Michael Cooper and located at 511 and 611 Marshall Lake Road. (Parcel ID #s: 09-21-28-0000-00-011 and 08-21-28-0000-00-029)



# CITY OF APOPKA PLANNING COMMISSION

X PUBLIC HEARING MEETING OF: March 13, 2018

SITE PLAN FROM: Community Development

SPECIAL REPORTS EXHIBITS: Vicinity Map

Aerial Map

Plat

Final Development Plan

SUBJECT: LAKE GEM COMMERCE PARK - FINAL DEVELOPMENT

PLAN/PLAT

REQUEST: RECOMMEND APPROVAL OF THE FINAL DEVELOPMENT

PLAN/PLAT FOR LAKE GEM COMMERCE PARK

**SUMMARY**:

OWNER/APPLICANT: Property Industrial Enterprises, LLC c/o Michael R. Cooper

PROJECT ENGINEER: Al Tehrani, P.E.

OTHER: Final Development Plan/Plat

LOCATION: 511 and 611 Marshall Lake Road

EXISTING USE: Vacant

FUTURE LAND USE: Industrial

ZONING: PUD (Planned Unit Development)/I-1

PROPOSED DEVELOPMENT: Commerce Park with 12 Lots

Minimum lot width: 160 feet; minimum lot size: 32,597 square feet

TRACT SIZE: 28.74 +/- acres

FLOOR AREA RATIO (FAR): Maximum 0.60 FAR

**FUNDING SOURCE: N/A** 

**DISTRIBUTION** 

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

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

G:\CommDev\PLANNING ZONING\SUBDIVISION PLANS\2018\Binion Reserve\4 Planning Com Hearing

#### RELATIONSHIP TO ADJACENT PROPERTIES:

Direction	Future Land Use	Zoning	Present Use
North (City)	Railroad/Commercial	Railroad/I-1	Railroad/Vacant
East (City)	Industrial	I-1	Vacant
South (City)	Industrial	Right-of-Way/I-1	Marshall Lake Road/Single Family Residence/ Horticulture/Vacant
West (City)	Conservation\Industrial	I-1	Vacant

**Project Use:** The Lake Gem Commerce Park Final Development Plan/Plat proposes the development of 12 industrial lots. Located within the PUD/I-1 zoning district, the plan shows a minimum lot width of 160 feet and with a no individual lot being less than 32,597 square feet. Lake Gem Commerce must comply with the development standards for I-1 zoning district but allowed for a building height of up 50 feet.

Preliminary and/or Final Development Plans shall be provided at the time of the each lot development and comply with the most current Land Development Code and other City standards.

The minimum setbacks applicable to this project are:

Setback	Min. Standard
Front*	25'
Side	10'
Rear	10'*
Corner	25'

<sup>\*30</sup> feet setback from residential uses or zoning districts.

Access: Ingress/egress access points for the development will be via full access onto Marshall Lake Road.

<u>Stormwater</u>: The stormwater management system includes an on-site retention area. The stormwater pond is located within Tract B. The stormwater pond design meets the City's Land Development Code requirements.

**<u>Buffer:</u>** A 25-foot wide landscaped buffer is provided along Marshall Lake Road, as required by Code, and on the boundary adjacent to the existing railroad. The plan also shows a 10-foot wide buffer along the eastern boundary.

**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:**

March 13, 2018 - Planning Commission, 5:30 p.m. April 4, 2018 - City Council, 1:30 p.m.

#### **RECOMMENDATION ACTION:**

The **Development Review Committee** recommends approval of Lake Gem Commerce Park Final Development Plan/Plat subject to the final review by the City surveyor and City Engineer prior to recording the plat and findings of this staff report.

**Planning Commission:** Find the Lake Gem Commerce Park Final Development Plan and Plat consistent with the Comprehensive Plan and Land Development Code, and recommend approval of the Lake Gem Commerce Park Final Development Plan/Plat, subject to the findings of this staff report.

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.

#### Property Industrial Enterprises, LLC, c/o Michael R. Cooper Ali Tehrani, P.E. Lake Gem Commerce Park Subdivision 28.74 +/- acres

**Proposed number of lots: 12** 

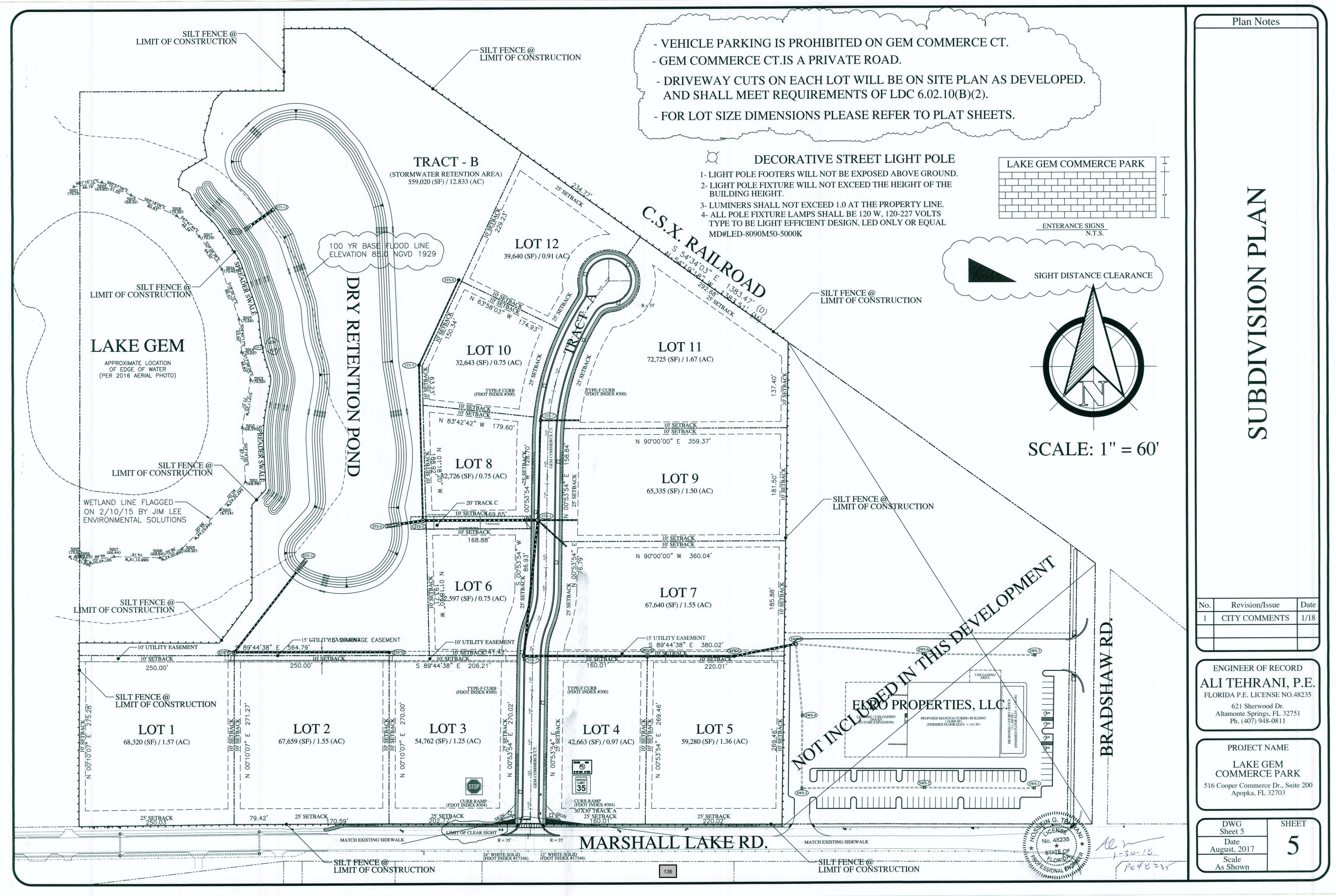
Parcel ID Nos.: 09-21-28-0000-00-011 and 08-21-28-0000-00-029

### **VICINITY MAP**



## **AERIAL MAP**





PLAT SHEET 2 OF 2 LAKE GEM COMMERCE CENTER BOOK PAGE LOCATED IN SECTIONS 8 AND 9, TOWNSHIP 21 SOUTH, RANGE 28 EAST, CITY OF APOPKA, ORANGE COUNTY, FLORIDA LINE TABLE LENGTH **BEARING** \_\_NORTH\_LINE\_OF\_SE1/4, NE\_1/4\_SEC\_8-21-28 NORTH LINE OF SW1/4, \_\_\_ NW 1/4 SEC 9-21-28 105.04 CURVE TABLE CURVE LENGTH RADIUS RADIUS CHORD CHORD BEARING

C1 55.08' 150.00' 21'02'22" 54.77' S11'25'05"W

C2 55.08' 150.00' 21'02'22" 54.77' N11'25'05"E

C3 283.66' 406.64' 39'58'05" 277.94' S20'52'56"W

C4 64.26' 175.00' 21'02'22" 63.90' S11'25'05"W

C5 45.90' 125.00' 21'02'22" 45.64' S11'25'05"W

C6 45.90' 125.00' 21'02'22" 45.64' N11'25'05"E

C7 64.26' 175.00' 21'02'22" 45.64' N11'25'05"E

C7 64.26' 175.00' 21'02'22" 63.90' N11'25'05"E

C8 245.06' 431.64' 32'31'47" 241.79' S17'09'48"W

C9 210.15' 381.64' 31'32'59" 207.50' S16'40'23"W SET 4x4 CM LB 7744 S 89'59'10" E 329.99' SET 4x4 CM LB 7744 C8 245.06' 431.64' 32'31'47" 241.79' S17'09'48"W

C9 210.15' 381.64' 31'32'59" 207.50' S16'40'23"W

C10 22.92' 25.00' 52'32'13" 22.13' S58'42'59"W

C11 19.45' 25.00' 44'34'42" 18.96' N11'08'20"E

C12 240.97' 50.00' 276'08'07" 66.83' N53'04'58"W

C13 40.60' 431.64' 5'23'24" 40.59' S03'35'36"W

C14 22.69' 381.64' 3'24'21" 22.68' S02'36'04"W

C15 187.46' 381.64' 28'08'38" 185.58' S18'22'34"W

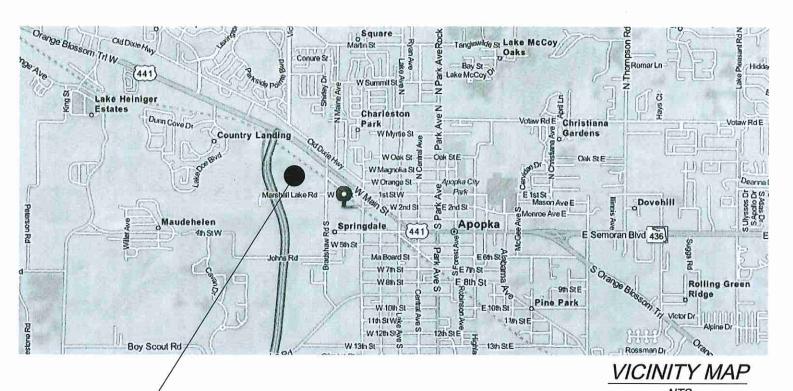
C16 148.74' 431.64' 19'44'40" 148.01' S16'09'37"W

C17 55.71' 431.64' 7'23'44" 55.68' S29'43'49"W 100 YR BASE FLOOD LINE ELEVATION 85.0 NGVD 1929 LOT 12 GRAPHIC SCALE: 1"=80' TRACT "B" LOT 11 LOT 10 LAKE GEM N 83'42'42" W 179.60' N 90°00'00" E 359.37' LOT 8 LOT 9 CONSERVATION - EASEMENT -S 01°18'20" E 20.01' N 90°00'00" E 195.04' N 90°00'00" W 194.27' 169.27 N 90°00'00" W 360.04' TRACT "C"-LIFT STATION LOT 6 LOT 7 INCLUDED PLATTED - 15' DRAINAGE EASEMENT - 15' DRAINAGE EASEMENT S 89'44'38" E 564.79' 141.42 — — <del>S 89'44'38" E 380.02</del>'-250.00' <del>S</del> 8<del>9 4</del>4 38" ‡ |206.21' -\_ 7.50**'** NOT NOT LOT 1 LOT 2 LOT 3 LOT 4 LOT 5 CALCULATED CENTER
OF SECTION 9-21-28
NOT RECOVERED SET 4x4 CM SET 4x4 CM OR FOUND LB 7744 79.42 LB 7744 250.03 172.77 220.02' N 89°45'19" W S 89°20'15" W 329.45' SET 4x4 CM -NORTH R/W LINE N 89'44'38" W 2623.22' N 89\*44'38" W 500.03' N 89°45'19" W 1302.70' MARSHALL LAKE ROAD \_\_NORTH LINE OF SE1/4, NE 1/4 SEC 8-21-28 N 89'45'19" W SW CORNER OF SE 1/4, NW 1/4 —/ SECTION 9-21-28 60.00' R/W E 1/4 CORNER — SECTION 9-21-28 1302.97 SOUTH LINE OF SW 1/4 OF POINT OF BEGINNING THE NW 1/4 OF SEC 9-21-28 PI OF NORTH R/W LINE AND FOUND 1" IP WITH NAIL WEST LINE NW 1/4 SECTION 9-21-28 EAST 1/4 CORNER OF SEC 8-21-28 FOUND 5/8" IRON ROD & CAP "LB 7744" WEST 1/4 CORNER OF SEC 9-21-28 Nieto-Whittaker Surveying LLC FOUND 4"X4" CM 1.57'E ,0.18'S FOUND 5/8" IRON ROD NO ID FOUND 4"X5" CM 1.53'E, 0.29'N IN CUT IN PAVEMENT 1728 N. Ronald Regan Blvd., Longwood, FL 32750 PH: (407) 636-8460 FAX: (407) 636-8461 LB No. 7744

	SUBDIVISION PLAN
	INDEX OF DRAWINGS
SHEET NO.	SHEET DESCRIPTION
1 .	COVER
2	LEGEND AND SITE DATA
3	GENERAL NOTES
4	BOUNDARY SURVEY
5	SUBDIVISION PLAN
6	UTILITY PLAN
7	GRADING PLAN
8	STORMWATER PLAN
9	DRAINAGE BASIN MAP (PRE-DEVELOPMENT)
10	DRAINAGE BASIN MAP (POST-DEVELOPMENT)
11-12	PLAN AND PROFILE VIEW
13	POND GEOMETRY & CROSS SECTIONS
14	POND OVERFLOW STRUCTURES DETAILS
15	POLLUTION PREVENTION PLAN
16-18	UTILITY DETAILS
19	CONSTRUCTION DETAILS
20	LIFT STATION PLAN
L-1	LANDSCAPE PLAN
1-2	IRRIGATION PLAN PLAN

#### NOTES:

- 1- EACH LOT SHALL SUBMIT A SEPARATE PRELIMINARY/ FINAL DEVELOPMENT PLAN TO INCLUDE SITE PLAN, BUILDING, LANDSCAPE, IRRIGATION PLANS FOR EACH LOT WILL BE SUBMITTED TO CITY FOR APPROVAL AT THE TIME OF DEVELOPMENT.
- 2- PERMANENT ENTRANCE CURB CUT LOCATIONS WILL BE DETERMINED AS EACH LOT DEVELOPED.
- 3- ORDINANCE NO.2447 APPLICABLE REQUIREMENTS WILL BE COMPLIED.
- 4- ALL DISTURBED SOIL SHALL BE SODDED OR SEED AND MULTCHED



SITE LOCATION

## FINAL DEVELOPMENT PLAN

# LAKE GEM COMMERCE PARK SUBDIVISION PLAN

PARCEL ID: 08-21-28-0000-00-029 PARCEL ID: 09-21-28-0000-00-011

> CITY OF APOPKA JANUARY, 2018



COVER

No. Revision/Issue Date
1 CITY COMMENTS 1/18

ENGINEER OF RECORD
ALI TEHRANI, P.E

ORIDA P.E. LICENSE NO.48: 621 Sherwood Dr. Altamonte Springs, FL 32751 Ph. (407) 948-0811

PROJECT NAMI

COMMERCE PARK
516 Cooper Commerce Dr., Suite 200
Apopka, FL 32703

DWG
Sheet 1-3
Date
August, 2017
Scale
As Shown

## **ABBREVIATIONS**

POINT OF REVERSE CURVATURE PRESSURE PROJECT PROPOSED REDUCING VALVE POINT OF REVERSE VERTICAL CURVE POUNDS PER SOUARE FOOT POUNDS PER SOUARE RICH POINT OF TANGENCY PLUG VALVE POLYNNYL CHLORIDE PAVEMENT POWER

RADUS
REINFORCED CONCRETE PIPE
ROAD
ROAD
ROAD
REDUCER
REFERENCE
REFERENCE
REINFORCE(D)
REQUIRED
REVES, FREMSION
REDUCED PRESSURE
BACKFLOW PREVENTOR
REVOLUTIONS PER MINUTE
RAJAROAD
REUEF VALVE
ROGHT-OT-WAY
REUSE WATER MAIN

SOUTH
SANITARY SEWER
SCHEDULE
SOUTHEAST
SECONDS
SECTION
SOUARE FEET
SHEET
SEIBACK LINE
SPECIFICATIONS
SOUARE
SOUARE
SOUARE
SOUARE
SOUARE
STAILESS
STELL
STRUCTURE
STRUCTURE
STORM SEWER
SERMICE
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SIDEUMALK
STRUCTURE
STRU

TANCENT

TANGENT
TOP AND BOTTOM
TEMPORARY BENCH MARK
TIME OF CONCENTRATION
TOTAL DYNAMIC HEAD
TOP ELEVATION
TEMPORARY
TOP OF GANK
TOP OF GANK
TOP OF GANK
TOP OF GANG
TOP OF SANG
TOP O

UNDERGRAIN
UNDERGROUND
UNDERGROUND TELEPHONE CABLE

VALVE BOX
VERTICAL CURVE
VIRRIED CLAY PIPE
VERTICAL
VERTICAL POINT OF CURVE
VERTICAL POINT OF TANGENCY

WEST
WITH
WATER MAIN
WATOUT
WOOD POWER POLE
WATER VALVE
WATER VALVE
WELDED WATER FABRIC
WELDED WATER FABRIC
WELDED WATER MESH

FLOW RATE

		F	
	Conservator Conservator	FG	FINISHED GRADE
D	ANCHOR BOLT ABANDON(ED)	FH	FIRE HYDRANT FIGURE
-FT	ACRE(S) ACRE FOOT/FEET	FIN	FINISHED
FT P	ACRE FOOT/FEET ASBESTOS CEMENT PIPE	FLR	FLOOR FLEXIBLE
DL	ADDITIONAL	FLG	FLANGE
1	AVERAGE DAILY TRAFFIC	FM	FORCE MAIN
	ALUMINUM BEFORE NOON APPROXIMATE	FND	FOUND FEET/FOOT
PROX	APPROXIMATE	FTG	FOOTING
V	AIR RELEASE VALVE AIR RELEASE VACUUM VALVE	G	
PH	ASPHALT	GA	GAUGE
SY E	ASSEMBLY AVENUE	GAL	GALLON GALVANIZED
G	AVERAGE	GALY	GAS MAIN
		GPD	GALLONS PER DAY GALLONS PER HOUR
Ρ.	BACKFLOW PREVENTER	GPH GPM	CALLONG DER FRMITE
	BASEUNE	GPS GV	GALLONS PER SECOND GATE VALVE
DG VD	BUILDING BOULEVARD	GV&B	GATE VALVE AND BOX
VD.	BENCH MARK	GW	GUY WIRE
DY	BOUNDARY	H	
C	BLOWOFF BACK OF CURB	HDPE	HIGH DENSITY POLYETHEYLENE P
w	BOTTOM OF WALL BUTTERFLY VALVE	HORIZ	HORIZONTAL
	BUTTERFLY VALVE	HP	HORSEPOWER HEIGHT
¢	BEGIN VERTICAL CURVE	HW	HEADWALL.
		HWL	HIGH WATER LEVEL HIGHWAY
	CATCH BASIN	HYD	HYDRANT
C	CENTER TO CENTER CUBIC FEET		
M.	CUBIC FEET PER MINUTE CUBIC FEET PER SECOND	1-4	INTERSTATE HIGHWAY
S dG	CUBIC FEET PER SECOND CURB AND GUTTER	IA	INTERSECTION ANGLE
	CAST IRON	ID IN	INSIDE DIAMETER INCHES
•	CAST IRON CAST IRON PIPE	INL	INLET
	CONSTRUCTION JOINT	IP.	IRON PIPE
Ļ	CENTER LINE CONCRETE LIGHT POLE CLEAR/CLEARANCE	IR INT	IRON ROD INTERSECT/INTERSECTION
2	CLEAR/CLEARANCE	INV	INVERT
	CLASS' CONCRETE MONUMENT	J	
P	CONCRETE MONUMENT CORRUGATED METAL PIPE COUNTY	JB	JUNCTION BOX
	CLEANOUT	JCT	JUNCTION
	COLUMN CONCRETE CONSTRUCT(ION)	Jī	JOINT
NC NST	CONCRETE CONSTRUCT(ION)		
NT	CONTINUOUS	LAT	LATITUDE
ORD	COORDINATE(S)	LATL	LATERAL POUND
R .	CORNER CONCRETE POWER POLE	LB LF	UNEAR FEET/FOOT
R	CONTROL STRUCTURE	LG	LONGITUDE
TV	CENTER CABLE TELEVISION	LP LS	LIGHT POLE UFT STATION
ĹV	CHIVERT	LT	LEFT
	CHECK VALVE CUBIC YARD	LWL	LOW WATER LEVEL
		M	
- 1	DOUBLE .	THIAM	MAINTENANCE
Н	DOUBLE DIAMETER AT BREAST HEIGHT	MATL	MATERIAL MAXIMUM
G P1	DEGREE DEPARTMENT	MECH	MECHANICAL
T		MES	MITERED END SECTION MANUFACTURER
W.	DESIGN HIGH WATER LEVEL DIAMETER	MGD	MILLION GALLONS PER DAY
	DIMENSION	WHAT	MANHOLE MEAN HIGH WATER LEVEL
SCH	DUCTILE IRON PIPE DISCHARGE	MIN	MINIMUM MISCELLANEOUS
ST	DISTANCE	MSC	MISCELLANEOUS MECHANICAL KONT
tH.	DROP MANHOLE DOWN	MLWL	MECHANICAL JOINT MEAN LOW WATER LEVEL
N	DRAIN	MON	MONUMENT
3	DRAWNG	MSL	MILES PER HOUR MEAN SEA LEVEL
		N	5
į.	EAST EACH	N	NORTH
	EXISTING GRADE	NA	NOT APPLICABLE NORMAL CONTROL LEVEL NORTHEAST
EV	ELECTRIC ELEVATION	NCL NE	NORTHEAST
IP	ELUPSE/ELUPTICAL ENCASEMENT	NG NIC	NATURAL GROUND
C G	ENCASEMENT ENGINEER(ING)	NO OR	NATURAL GROUND NOT IN CONTRACT NUMBER
>	EDGE OF PAVEMENT	NTS	NOT TO SCALE
UP	EQUIPMENT EQUIVALENT	NWL NWL	NORTHWEST NORMAL WATER LEVEL
MT	EASEMENT		
r	ESTIMATE END VERTICAL CURVE	0	
IST		00	ON CENTER OUTSIDE DIAMETER
P T	EXPAND/EXPANSION EXTEND/EXTENSION	OC OD OPNG	OPENING
·	Extens/Extension	OPP	OPPOSITE OVERHEAD
		1	a twin items
	FLOOR DRAIN	PC	POINT OF CURVATURE
C OT	FIRE DEPARTMENT CONNECTION FLORIDA DEPARTMENT OF TRANSPORTATION	PCC	POINT OF CURVATURE POINT OF COMPOUND CURVATURE
41	OF TRANSPORTATION	PEP	POLYETHYLENE PIPE
		FT.	I WILL DE BETEUSEORON
	FINISHED FLOOR	PIV	POST INDICATOR VALVE
	FINISHED FLOOR	PIV P/L POB POS	POST INDICATOR VALVE PROPERTY LINE POINT OF BEGINNING POINT OF SERVICE

## **LEGEND**

BARBED WIRE FENCE	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
CENTER LINE	
CHAIN LINK FENCE	
CONTOURS	
EASEMENT LINE	
GUARD RAIL	
LOT LINES	
PROPERTY LINE	
RIGHT-OF-WAY	**************************************
RETAINING WALL	
SHORELINE	**************
WETLAND LIMITS STOCKADE FENCE	-000
TREE LINE	
EROSION CONTROL	arrestrates excesses of the reservoirs
BUFFER / SETBACK	
100 LINEAR FEET	100 H-12" pvc @ 0.30%
SANITARY 12" PVC	<del></del>
PIPE @ 0.30% SLOPE CLEANOUT	0
DBL SEWER LATERAL	<u>~</u>
SINGLE SEWER LATERAL	<u>بر</u>
2" PVC PIPE FORCE MAIL	N ———4" pvc fm———
MANHOLE	•
100 LINEAR FEET STORM 24" RCP	100 H-24" rep @ 0.21%
@ 0.21% SLOPE	
" PVC UNDERDRAIN	6° pvc ud
DRAINAGE FLOW ARROW	·~~
OURB INLET	0
MITERED END SECTION	Œ
SLOPE DIRECTIONAL	<b>_</b>
OR PONDS	
SPOT GRADE	• 58.5
STORM INLET	
STORM STRUCTURE ID	
" PVC WATER MAIN	6" pvc am-
6" PVC REUSE	6" reciaim pvc wm
ATER MAIN	
TIRE DEPT. CONNECTION	*
BACKFLOW PREVENTER	
DOUBLE WATER SERVICE	<b>—</b>
SINGLE WATER SERVICE	
GATE VALVE	H
FIRE HYDRANT	ā
WATER METER	<b>□</b> ▼
REDUCER BLOWOFF	0
BENCH MARK	ě
BOUNDARY CORNER	ė.
CONCRETE	<u> </u>
LIGHT POLE	*
ROAD SIGN	- 1
EDGE OF PAVEMENT	
W/O CURB	****
GUY POLE	9
JTILITY POLE	TO THE STATE OF TH
GAS MAIN CABLE TV	
ELECT. BURIED CABLE	- Sele
ELEPHONE CABLE	ute
CURB & PAVEMENT	
OVERHEAD WIRE	
DETAIL REFERENCE	
FF ELEVATION &	
FHA LOT GRADING TYPE	e.
HANDICAP PARKING	Č.

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PAVEMENT MARKINGS

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	x - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	85
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	100LF~12" PVC 9 0.30%
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	2° PVC FM
	100 LF~24" RCP @ 0.21%
	6* PVC UD
	• 88.5
	STS#) 6" PVC WM
	6° PVC RWM
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FF 108.25 TYPE A Ġ

## SITE DATA

OWNER
PROPERTIES INDUSTRIAL ENTERPRISES, LLC.
MICHAEL R. COOPER
370 COOPER PALMS PARKWAY
APOPRA, FL 32703
(407) 689–2510 **ENGINEER** ALI TEHRANI, P.E.
621 SHERWOOD DR
ALTAMONTE SPRINGS, FL 32751
(407) 948-0811
FLORIDA PE #48235 SURVEYOR SITE DATA

511 MARSHALL LAKE RD., APOPKA, FL 32703 28.60 AC. PUD (1-1)

FUTURE LAND USE INDUSTRIAL (PUD/I-1) PROPOSED USE

PROPOSED IMPROVEMENTS
THE MASTER INFRASTRUCTURE IMPROVEMENTS SHALL
INCLUDE UTLITY (BRINKING WATER, SANITARY SEWER,
RECLAMADE WATER AND STORM WATER) AND OTHER
INFRASTRUCTURE TO SERVE THE TOTAL PROJECT.

INFINASTRUCIORE TO SERVE THE TOTAL PROJECT.

STORMWATER
THE MASTER STORMWATER SYSTEM HAS BEEN SIZED TO MEET
THE APOPEA BASIN RULE AND THE WERNA RECHARGE
REQUIREMENT STEMES. AND HAS RIVER WATER
ESTABLES STEMES AND HAS BEEN WATER
DEVELOPMENT PEAK DISCHARGE RATE FOR THE MEAN ANNUAND THE 25 YEAR — 24 HOUR STORM EVENTS WILL BE
EQUIL OR LESS THAN PREDEVELOPMENT DISCHARGE RATE.
THE POND IS SIZED BASED ON BOX IMPERVIOUS & 20X
PERVIOUS PER LOTS.

PARCEL ID#:	09-21-28-0000-00-011
FUTURE LAND USE	INDUSTERIAL
FUTURE LAND USE	PUD / I-1
ADJACENT FUTURE LAND USE	NORTH: C-1 SOUTH: HWY EAST: PUD/I-1 WEST: HWY
ADJACENT ZONING	NORTH: C-1 SOUTH: HWY EAST: PUD/I-1 WEST: HWY
ACREAGE/ SQUARE FOOTAGE	28.6 AC
BUILDING HEIGHT	PROPOSED: N/A MAX.: 50 FT.
FLOOR AREA RATIO	PROPOSED: N/A MAX.: 0.60.
BUILDING SET BACK	REQUIRED FRONT: 25' SIDE: 10' REAR: 10' CORNER: 25'
PARKING SPACES	PROVIDED: N/A REQUIRED: N/A
NUMBER OF EMPLOYEES	N/A
PROPOSED NUMBER OF BEDS	N/A
WAIVER REQUEST	NO
VARIENCE REQUEST	NO

Plan Notes

AT P SITE EGEND

lo.	Revision/Issue	Date
1	CITY COMMENTS	1/18

ENGINEER OF RECORD ALI TEHRANI, P.E. FLORIDA P.E. LICENSE NO.48235

621 Sherwood Dr. Altamonte Springs, FL 32751 Ph. (407) 948-0811

PROJECT NAME

LAKE GEM COMMERCE PARK 516 Cooper Commerce Dr., Suite 200 Apopka, FL 32703

-	
DWG Sheet 1-3	SHEET
Date August, 2017	1 2
Scale As Shown	1 -

#### **GENERAL NOTES**

- 1. CONTRACTOR IS ADVISED THAT PRIOR TO BEGINNING ANY WORK ONSITE, THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FOEP) REQUIRES THE FILING OF A NOTICE OF INTERT (KOI) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NPDES CONSTRUCTION GENERAL PERMIT. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO FILE THE NOI AND FORWARD COPIES TO TEHRANI CONSULTING ENGINEERING AND THE LOCAL MSA OPERATOR, IF APPLICABLE. CONTACT FDEP NPDES STORMWATER NOTICES CENTER AT 866-336-6312 FOR MORE INFORMATION.
- 2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND ARE ONSITE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 3. FOR STORMWATER POLLUTION PREVENTION PLAN, NOTES AND CONTRACTOR'S CERTIFICATION, SEE SHEET 8.
- 4. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING A SAFE AND SECURE CONSTRUCTION SITE. CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL SAFETY CODES AND REQUIREMENTS TO INSURE THAT WORKERS, AND ALL OTHER AFFECTED PERSONS, MATERIALS, ONSITE AND OFFSITE PROPERTY, ARE SAFE. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO INSURE THE SITE IS SECURE AND NOT ACCESSIBLE TO UNAUTHORIZED PERSONS.
- 5. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY TEHRANI CONSULTING ENGINEERING OF ANY DISCREPANCIES FOUND BETWEEN THESE PLANS AND THE FIELD CONDITIONS.
- 6. 48 HOURS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING:

APOPKA PUBLIC WORKS (407) 703-1731

APOPKA BUILDING DEPARTMENT (407) 703-1713

BELLSOUTH TELEPHONE (888) 757-6500

DUKE ENERGY (407) 629-1010

SPECTRUM (407) 291-2500

TEHRANI CONSULTING ENG. (407) 948-081

- CONTRACTOR SHALL BE EXTREMELY CAUTIOUS WHEN WORKING NEAR TREES THAT ARE TO BE SAVED. IF THERE IS A QUESTION AS TO WHETHER A PARTICULAR AREA SHOULD BE CLEARED, THE CONTRACTOR SHALL CONTACT THE OWNER FOR FURTHER INSTRUCTIONS.
- 8. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SURVEY MONUMENTS. DISTURBED MONUMENTS SHALL BE RESTORED AT CONTRACTOR'S EXPENSE, BY A FLORIDA LICENSED LAND SURVEYOR SELECTED BY THE OWNER.
- 9. THE TOPOGRAPHIC SURVEY INFORMATION SHOWN WAS PROVIDED BY NIETO WHITTAKER SURVEYING, L.C. AND IS NOT CERTIFIED BY TEHRANI CONSULTING ENGINEERING.
- 10. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT. ALL CURB RADII ARE 5' UNLESS OTHERWISE NOTED.
- 11. ALL PAVEMENT MARKERS, STRIPING, SIGNAGE, AND OTHER TRAFFIC CONTROL DEVICES SHALL BE INSTALLED BY CONTRACTOR PER ALL MUNICIPAL AND FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS.
- 12. REGULATORY STRIPPING AND SIGNS SHALL BE IN PLACE PRIOR TO FINAL INSPECTION OF PAVING AND DRAINAGE IMPROVEMENTS.
- 13. ALL DISTURBED AREAS, SIGNAGE, AND LIGHTING SHALL BE RETURNED TO PRE-CONSTRUCTION CONDITIONS OR BETTER.
- 14. ALL EQUIPMENT, INCLUDING ROOFTOP AND UTILITY BOXES, MUST BE FULLY SCREENED FROM VIEW OF RIGHTS-OF-WAY AND ADJACENT PROPERTIES.

#### PAVING AND GRADING NOTES

- 1. SITE GRADING, PAVING, AND DRAINAGE MATERIALS AND CONSTRUCTION SHALL CONFORM TO CITY OF APOPKA DEVELOPMENT STANDARDS AND SPECIFICATIONS AND FDOT ROADWAY DESIGN STANDARD AND SPECIFICATIONS
- FOR GEOTECHNICAL RECOMMENDATIONS AND FINDING, REFER TO THE GEOTECHNICAL INVESTIGATION PREPARED BY YOVAISH ENGINEERING SCIENCES, INC. UPDATED GEOTECHNICAL RECOMMENDATIONS AND FINDINGS, REFER TO THE GEOTECHNICAL INVESTIGATIONS PREPARED BY YOVAISH ENGINEERING SCIENCES, INC.
- 3. ELEVATIONS AT CURB ARE EDGE OF PAVEMENT; TOP OF CURB SHALL BE 6" ABOVE EDGE OF PAVEMENT.
- 4. CONTRACTOR IS RESPONSIBLE FOR GRADING ALL PARKING AND DRIVEWAYS TO DRAIN POSITIVELY. INTERSECTIONS SHALL BE TRANSITIONED TO PROVIDE SMOOTH DRIVING SURFACE WHILE MAINTAINING POSITIVE DRAINAGE. SHOULD AREAS OF POOR DRAINAGE RESULT FROM THE ADJUSTMENTS DESCRIBED, THE CONTRACTOR SHALL NOTIFY THE SITE SUPERINTENDENT AND THE ENGINEER PRIOR TO PLACING BASE SO THAT RECOMMENDATIONS FOR CORRECTION MAY BE MADE.
- 5. MINIMUM GRADE OF SODDED AREA SHALL BE 1%.
- 6. A SMOOTH FINISHED TRANSITION SHALL BE MADE AT ALL CURB TERMINATIONS (TYPICAL 2 FOOT TAPER) UNLESS OTHERWISE NOTED.
- 7. AFTER THE COMPLETION OF THE STORMWATER FEATURES, INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT PERMIT.
- 8. THE FOLLOWING CONSTRUCTION PROCEDURES ARE RECOMMENDED FOR THE DRY POND(S), PER ST. JOHNS RIVER WATER MANAGEMENT DISTRICT:

(A) INITIALLY CONSTRUCT THE RETENTION BASIN TO ROUGH GRADE BY UNDER-EXCAVATING THE BASIN BOTTOM AND SIDES BY APPROXIMATELY 12-INCHES.

BASIN BOTTOM AND SIDES BY APPROXIMATELY 12-INCHES.

(B) AFTER THE DRAINAGE AREA CONTRIBUTING TO THE BASIN HAS BEEN FULLY STABILIZED, THE INTERIOR SIDE SLOPES AND BASIN BOTTOM SHOULD BE EXCAVATED TO FINAL DESIGN SPECIFICATIONS. THE EXCESS SOIL AND UNDESIRABLE MATERIAL SHOULD BE CAREFULLY EXCAVATED AND REMOVED, SO THAT ALL ACCUMULATED SILTS, CLAYS, ORGANICS, AND OTHER FINE MATERIAL SHOULD BE DISPOSED OF BEYOND THE LIMITS OF THE DRAINAGE AREA OF THE BASIN.

(C) ONCE THE BASIN HAS BEEN EXCAVATED TO FINAL GRADE, THE ENTIRE BASIN BOTTOM SHOULD BE DEEP RAKED AND LOOSENED FOR OPTIMAL INFILTRATION.

(D) FINALLY, THE BASIN SHOULD BE STABILIZED WITH PERVIOUS MATERIAL OR PERMANENT VEGETATIVE COVER. TO PROVIDE PROPER TREATMENT OF THE RUNOFF IN YERY PERMABLE SOILS, PERMANENT YEGETATIVE COVER MUST BE UTILIZED WHEN U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE (SCS) HYDROLOGIC GROUP "A" SOILS UNDERLIE THE BETFENTION BASIN

- 9. PRIOR TO FINAL ACCEPTANCE THE CONTRACTOR SHALL PROVIDE TEHRANI CONSULTING ENGINEERING WITH COMPLETE STORMWATER AS-BUILTS INCLUDING CONTROL STRUCTURES, INLETS AND PIPES, SPREADER SWALES (IF ANY), AND POND CONTOURS, DIMENSIONS, AND SLOPES.
- 10. ALL DISTURBED AREAS ONSITE AND OFFSITE SHALL BE RETURNED TO ORIGINAL CONDITIONS OR BETTER, SOD ALL DISTURBED AREAS.
- 11. ALL HIGH-DENSITY POLYETHYLENE (HDPE) PIPE USED FOR STORM DRAIN APPLICATIONS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M294 CURRENT EDITION AND BE CERTIFIED THROUGH THE PLASTIC PIPE INSTITUTE (PPI) THIRD PARTY CERTIFICATION PROGRAM. ALL HDPE PIPE DELIVERED AND USED SHALL BEAR THE THIRD PARTY ADMINISTERED PPI SEAL. ALL HDPE JOINTS SHALL BE WATER TIGHT AND CERTIFIED TO MEET A MINIMUM LAB TEST OF 10.8 PSI PER ASTM D3212.

#### UTILITY NOTES

- ALL CONSTURCTION SHALL CONFORM TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, AND CITY OF APOPKA STANDARDS AND SPECIFICATIONS. IN CASE OF A CONFLICT THE MOST STRINGENT RULE SHALL APPLY.
- 2. GRAVITY SEWER MAIN PIPE SHALL BE PVC EXCEPT AS NOTED AND SHALL MEET ASTM D3034 (SDR 35), JOINTS SHALL CONFORM TO ASTM D3212 AND F477.
- 3. GRAVITY SEWER MAIN SHALL BE TESTED PER CITY OF APOPKA STANDARDS, PIPE SHALL BE LAMPED FOR ALIGNMENT, SLOPE TRUENESS, INFILTRATION, STANDING WATER, AND CLEANLINESS BY A CITY OF APOPKA INSPECTOR AND TEHRANI CONSULTING ENGINEERING REPRESENTATIVE. LEAKAGE TESTING SHALL ALSO BE PERFORMED OF REQUIRED BY CITY OF APOPKA.
- 4. THE ENGINEER AND CITY OF APOPKA INSPECTOR SHALL BE NOTIFIED AT LEAST 5 DAYS PRIOR TO ANY TESTING. FAILURE TO DO SO WILL RESULT IN RETESTING AT THE CONTRACTOR'S EXPENSE.
- 5. COMPLETE AS-BUILT DRAWINGS PREPARED BY A PROFESSIONAL LAND SURVEYOR SHALL BE PROVIDED TO THE ENGINEER IMMEDIATELY AFTER COMPLETION OF THE WATER AND SEWER IMPROVEMENTS. AS-BUILTS SHALL INCLUDE MANHOLE LOCATION WITH TOP AND INVERT ELEVATION, LOCATION OF VALVES, FITTINGS, AND OTHER APPURTENANCES, LENGTHS OF PIPE, TOP OF WATER MAIN ELEVATIONS, SIZE AND MATERIAL OF PIPE, SEPARATION DISTANCES AT PIPE CROSSINGS AND SHALL MEET CITY OF APOPKA REQUIREMENTS.
- 6. CONTRACTOR SHALL NOTIFY UTILITIES AND SUNSHINE PRIOF TO CONSTRUCTION FOR FLAGGING / LOCATION OF EXISTING UTILITY LINES, EXISTING UTILITY LOCATIONS SHOWN ARE ONLY APPROXIMATE.
- 7. ALL SEWER PIPE SHALL BE BURIED WITH IDENTIFICATION TAPE ABOVE THE TOP OF THE PIPE. THE TAPE SHALL INDICATE THE PRESENCE OF GRAVITY SEWERS PLAINLY ON THE TAPE FACE. INDICATOR TAPE SHALL BE DETECTABLE BY STANDARD METAL DETECTION EQUIPMENT.
- 8. ALL WATER MAINS SHALL BE INSTALLED WITH CONTINUOUS, INSULATED 10 GAUGE COPPER WIRE INSTALLED DIRECTLY ON TOP OF THE PIPE FOR LOCATION PURPOSES. ALL PIPE AND PIPE FITTINGS SHALL BE COLOR CODED OR MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-555.320 (21) (B) 3, F.A.C., USING BILLE AS A PREDOMINANT COLOR.
- 9. WHERE WATER AND GRAVITY SANITARY SEWER MAINS CROSS WITH LESS THAN 18 INCHES VERTICAL CLEARANCE OR THE SEWER MAIN IS ABOVE THE WATER MAIN, THE SANITARY SEWER WILL BE 20 FEET OF PVC PIPE UPGRADED TO WATER MAIN STANDARDS AND PRESSURE TESTED.
- 10. WHERE WATER MAINS AND STORM SEWER PIPES CROSS WITH LESS THAN 18 INCHES VERTICAL CLEARANCE, THE WATER MAIN SHALL BE 20 FEET OF DUCTILE ITON PIPE CENTERED ON THE POINT OF CROSSING.
- 11. WHEN A WATER MAIN PARALLELS A GRAVITY SANITARY SEVER MAIN, A SEPARATION (MEASURED EDGE TO EDGE) OF AT LEAST TEN FEET SHOULD BE MAINTAINED. WHERE THIS SEPARATION IS NOT MET, ONE OF THE FOLLOWING MUST OCCUR:
- A. THE WATER MAIN IS LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER, OR:
- B. IF BOTH SANITARY SEWER AND POTABLE WATER MAINS ARE PROPOSED AND THE ABOVE (A) IS NOT MET, THE SANITARY SEWER PIPES SHALL BE UPGRADED TO THE EQUIVALENT PIPE MATERIAL AS THE WATER MAIN AND PRESSURE TESTED.
- C. IF THE SANITARY SEWER IS EXISTING AND THE POTABLE WATER MAIN IS PROPOSED, THE WATER MAIN SHALL, AT A MINIMUM, BE UPGRADED TO DUCTILE IRON PIPE, CONSTRUCTED IN SEPARATE TRENCHES, LAID AT A HIGHER ELEVATION THAN THE SANITARY SEWER, AND UTILIZE STAGGERED JOINTS.
- 12. HORIZONTAL SEPARATION OF 10 FEET (EDGE TO EDGE) MINIMUM AND VERTICAL SEPARATION OF 18 INCHES MINIMUM SHALL BE MAINTAINED BETWEEN FORCE MAINS AND WATER MAINS. SEPARATION REQUIREMENTS BETWEEN FORCE MAINS AND POTABLE WATER MAINS MUST BE MAINTAINED UNLESS APPROVED IN ADVANCE BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- 13. THE CONTRACTOR SHALL BE SEPARATELY RESPONSIBLE FOR APPROPRIATE CONSTRUCTION, DISINFECTION AND TESTING BEYOND THE WATER METER TO ASSURE POTABILITY AT THE POINT OF USE.
- 14. POTABLE WATER PIPES SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH SPECIFICATION NUMBERS GOOD AND GOOS/MAS FOR DUCTILE IRON AND PVC PIPES RESPECTIVELY AND WITHESSED BY CITY INSPECTOR AND TEHRANI CONSULTING ENGINEERING REPRESENTATIVE, CHLORINATION AND BACTERIOLOGICAL TESTING SHALL BE PERFORMED PER AWWA 6651 AND WITNESSED BY CITY OF APOPKA INSPECTOR.
- 15. POTABLE WATER PIPES MUST BE MANUFACTURED IN ACCORDANCE WITH THE FOLLOWING
- A. DUCTILE IRON PIPE (3 INCHES TO 54 INCHES) AWWAC160/C151;
- B. PVC (WITH NATIONAL SANITATION FOUNDATIONS SEAL)
  (1) AWWA C900/ASTM 1784 (4 INCHES TO 12 INCFES) WITH DR18 MINIMUM;
  - (2) AWWA C905 (14 INCHES TO 36 INCHES);
  - (a) ASTM 1785 OR AWWA C905 (LESS THAN 4 INCFES) SCHEDULES 40, 80, AND 120 OR ASTM
- C. POLYETHYLENE PIPE AWWA C901 WITH VALVES AND FITTINGS (AWWA C800); AND
- 16. IF CONNECTION TO THE WATER MAIN WILL RESULT IN A DEPRESSURIZATION OF THE EXISTING SYSTEM BELOW 20 POUNDS PER SQUARE INCH, ONE OF THE FOLLOWING MUST OCCUR:
- A. PRECAUTIONARY BOIL WATER NOTICES MUST BE ISSUED IN CASE OF PLANNED DISTRIBUTION INTERRUPTIONS, WHICH ARE DEEMED AN IMMINENT PUBLIC HIALTH THREAT BY THE FDEP CENTRAL DISTRICT OR WILL AFFECT THE BACTERIOLOGICAL QUALITY OF THE DRINKING WATER UNLESS THE PUBLIC WATER SYSTEM CAN DEMONSTRATE, BY SOUND ENGINEERING JUDGEMENT, THAT THE INTEGRITY OF THE WATER SYSTEM HAS BEEN MAINTAINED; OR
- B. IN CASES OF BRIEF INTERRUPTION IN SERVICE, ADVISORIES (NOT BOIL WATER NOTICES) SHOULD BE ISSUED IF TEMPORARY CHANGES IN WATER QUALITY ARE EXPECTED TO OCCUR AND NOT DEEMED AN IMMINENT PUBLIC HEALTH RISK.
- 17. ALL AIR/VACUUM RELIEF VALVES MUST END IN A DOWN-TURNED ELBOW WITH AT LEAST 12 INCHES ABOVE THE SURROUNDING GRADE UNLESS THE WET SEASON WATER TABLE CAN BE SHOWN TO BE BELOW THE VALUIT BOTTOM.
- 18. FILLING OF PROPOSED WATER MAINS FROM EXISTING WATER MAINS WILL BE DONE IN ACCORDANCE WITH AWWA SPECIFICATION C651.
- 19. PROPOSED GATE VALVES AT POINTS OF CONNECTION SHALL BE CLOSED AND REMAIN LOCKED UNTIL LINE IS CLEARED, CITY OF APOPKA PUBLIC UTILITIES SHALL LOCI VALVE AND RETAIN KEY. VALVE SHALL BE OPERATED BY CITY OF APOPKA PERSONNEL ONLY.
- 20. MAINTAIN A MINIMUM OF 3 FEET OF COVER OVER ALL PROPOSED PIPES, EXCEPT AS SPECIFICALLY SHOWN ON THESE PLANS. WATER MAINS SHALL BE SUFFICIENTLY DEEP TO PROVIDE CLEARANCE WITH STORM AND SANITIARY SEWER LINES.
- 21. ON-SITE WATER DISTRIBUTION SYSTEM SHALL BE PRIVATELY OWNED AND MAINTAINED BY THE PROPERTY OWNERS ASSOCIATION.

- 22. ON-SITE WASTEWATER COLLECTION SYSTEM SHALL BE PRIVATELY OWNED AND MAINTAINED BY PROPERTY OWNERS ASSOCIATION.
- 23. ON-SITE RECLAIMED WATER DISTRIBUTION SYSTEM SHALL BE PRIVATELY OWNED AND MAINTAINED BY PROPERTY OWNERS ASSOCIATION.
- 24. WATER MAIN SHALL NOT COME IN CONTACT WITH OR PASS THROUGH ANY SANITARY OR STORM
- 25. CONTRACTOR SHALL FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING UTILITIES AND POINTS OF CONNECTION. IF ANY DISCREPANCIES WITH PIPE, FITTING, VALVE OR STRUCTURE LOCATIONS ARE DISCOVERED DURING STAKEOUT, CONTRACTOR SHALL REFER TO TEHRANI CONSULTING ENGINEERING: (407) 948-0811 FOR CLARIFICATION.
- 26. FIRE HYDRANTS SHALL BE CENTERED WITHIN PROPOSED ISLANDS, APPROXIMATELY THREE FEET FROM THE BACK OF CURB. PUMPER NOZZLE SHALL FACE PARKING LOT.
- 27. ALL PVC PIPE SHALL BEAR THE NATIONAL SANITATION FOUNDATION (NSF) SEAL.
- 28. CHAPTER 77-153 OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY ALL GAS UTILITIES A MINIMUM OF TWO WORKING DAYS PRIOR TO EXCAVATING, PLANS SHOW ONLY THE APPROXIMATE LOCATION OF GAS MAINS OR SERVICES LINES. THE ONLY SAFE AND PROPER WAY TO LOCATE GAS FACILITIES IS BY AN ON-SITE INSPECTION BY LAKES PROPANE NATIONAL GAS PERSONNEL. THEREFORE, EXCAVATORS ARE INSTRUCTED TO TELEPHONE O.N.I.S. AT 1-800-432-4770 TWO WORKING DAYS BEFORE DIGGING IN A CONSTRUCTION AREA.
- 29. WHERE GRAVITY SEWER PIPES AND STORM SEWER PIPES CROSS WITH LESS THAN 18 INCHES VERTICAL CLEARANCE, THE GRAVITY SEWER PIPE SHALL BE 20 FEET OF PVC PIPE UPGRADED TO WATER MAIN STANDARDS AND PRESSURE TESTED, CENTERED ON THE POINT OF GROSSING.
- 30. WATER SYSTEM JOINTS SHALL BE INTEGRAL BELL PUSH ON TYPE AND CONFORM TO ASTM 3139.
- 31. CONTRACTOR SHALL MEET ALL CONDITIONS OF THE FDEP PERMITS.
- 32. ALL PIPE, PIPE FITTINGS, PIPE JOINT PACKING AND JOINTING MATERIALS, VALVES, FIRE HYDRANTS, AND METERS INSTALLED UNDER THIS PROJECT SHALL CONFORM TO APPLICABLE AMERICAN WATER WORKS ASSOCIATION JAWAYAL STANDARDS.
- 33. ALL MASTER METERS SHALL BE EQUIPPED WITH RADIO READ (AMR) DEVICES COMPATIBLE WITH THE CURRENT CITY AMR SYSTEM.
- 34. ALL WASTEWATER FLOWS ASSOCIATED WITH THIS DEVELOPMENT MUST COMPLY WITH THE REQUIREMENTS SET FORTH IN THE CITY OF APOPKA INDUSTRIAL WASTE GUIDELINES, SECTION 82-38 OF THE CITY MUNICIPAL CODE.

Plan Notes

ENERAL NOTES

o. Revision/Issue Date

ENGINEER OF RECORD
ALI TEHRANI, P.E.

FLORIDA P.E. LICENSE NO.48235 621 Sherwood Dr. Altamonte Springs, FL 32751 Ph. (407) 948-0811

PROJECT NAME

LAKE GEM COMMERCE PARK

516 Cooper Commerce Dr., Suite 200 Apopka, FL 32703

DWG
Sheet 1-3
Date
August, 2017
Scale
As Shown

140

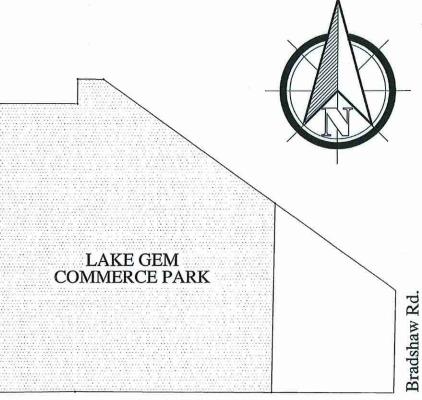
#### PROPERTY DESCRIPTION

LAKE GEM COMMERCE PARK

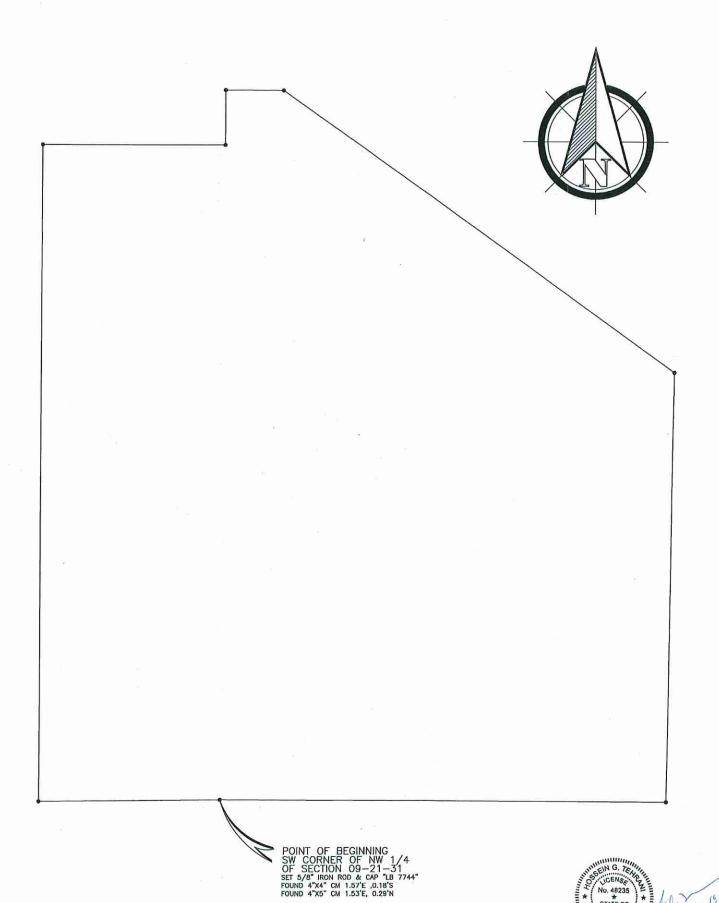
THE ABOVE PARCEL BEING DESCRIBED AS:

BEGIN AT THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 9, TOWNSHIP 21 SOUTH, RANGE 31 EAST AS RECORDED IN THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, SAID POINT TO BE THE POINT OF BEGINNING; THENCE SOUTH 89 DEGREES 20 MINUTES 14.82 SECONDS WEST, A DISTANCE OF 327.985 FEET ALONG THE SOUTHERN LINE OF THE SAID SECTION; THENCE NORTH 00 DEGREES 10 MINUTES 06.68 SECONDS EAST, A DISTANCE OF 1,182.879 FEET; THENCE SOUTH 89 DEGREES 59 MINUTES 10.02 SECONDS EAST, A DISTANCE OF 329.992 FEET; THENCE NORTH 00 DEGREES 02 MINUTES 34.80 SECONDS EAST, A DISTANCE OF 99.466 FEET; THENCE SOUTH 89 DEGREES 35 MINUTES 56.16 SECONDS EAST, A DISTANCE OF 105.036 FEET; THENCE SOUTH 54 DEGREES 19 MINUTES 17.65 SECONDS EAST, A DISTANCE OF 869.477 FEET; THENCE SOUTH 00 DEGREES 53 MINUTES 53.67 SECONDS WEST, A DISTANCE OF 774.292 FEET; THENCE NORTH 89 DEGREES 44 MINUTES 37.94 SECONDS WEST, A DISTANCE OF 804.765 FEET.

THE PARCEL CONTAINS 1,246,196.51 (SF) OR 28.609 (AC), MORE OR LESS.



Marshall Lake Rd.



Plan Notes

OUNDARY SURVEY

	Revision/Issue	Date
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H		-

ENGINEER OF RECORD

ALI TEHRANI, P.E. FLORIDA P.E. LICENSE NO.48235

621 Sherwood Dr. Altamonte Springs, FL 32751 Ph. (407) 948-0811

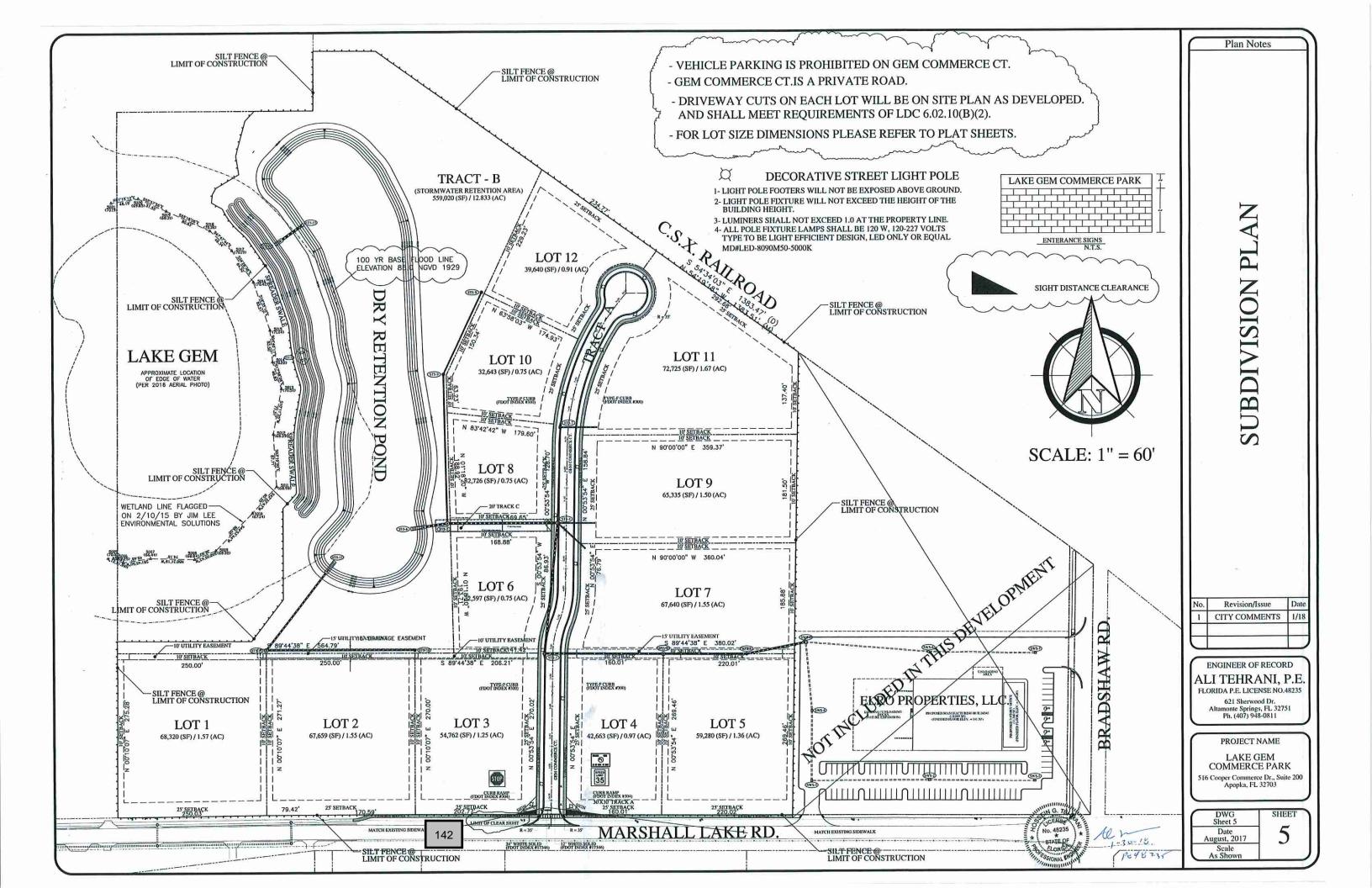
PROJECT NAME

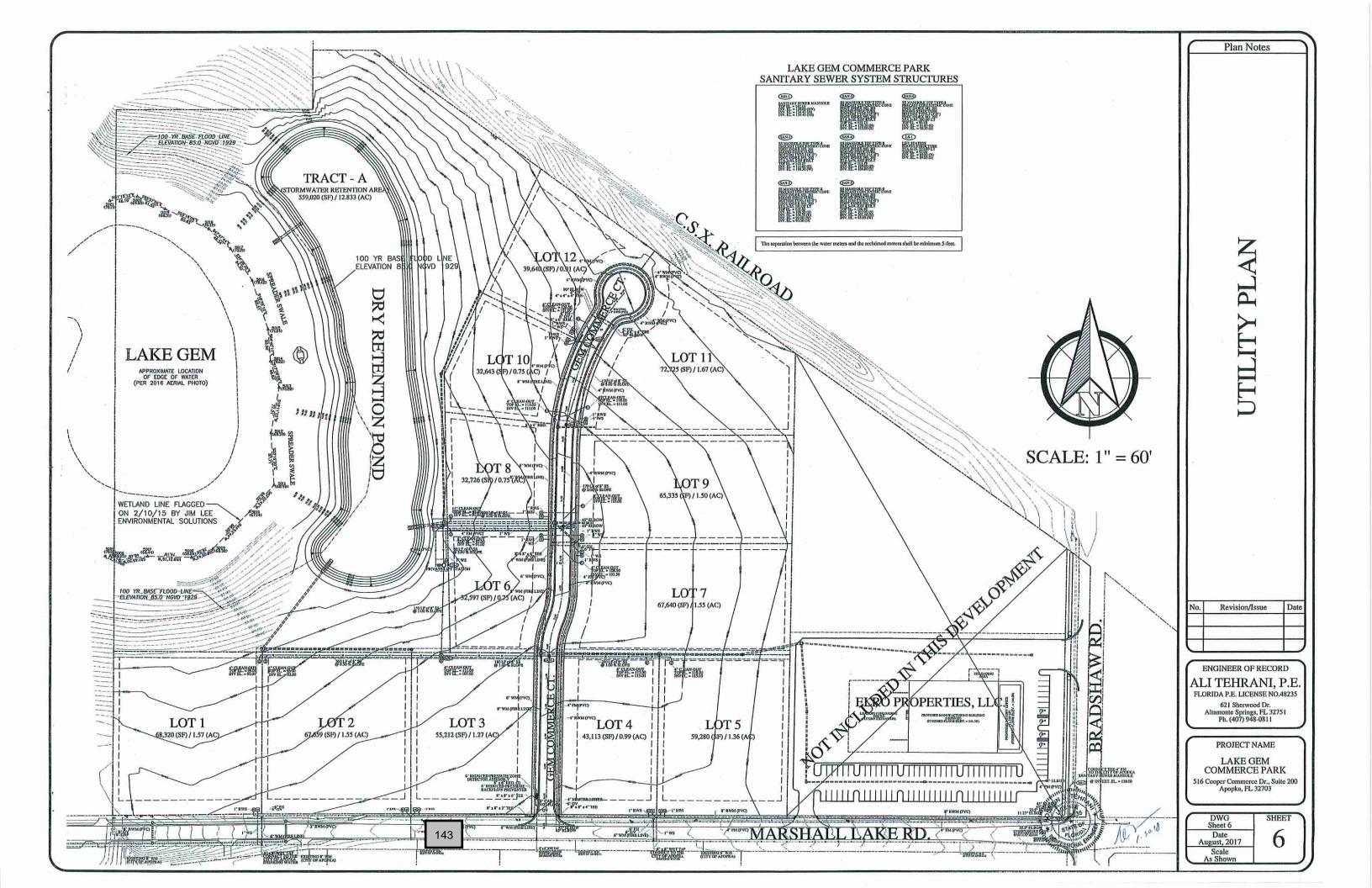
LAKE GEM COMMERCE PARK

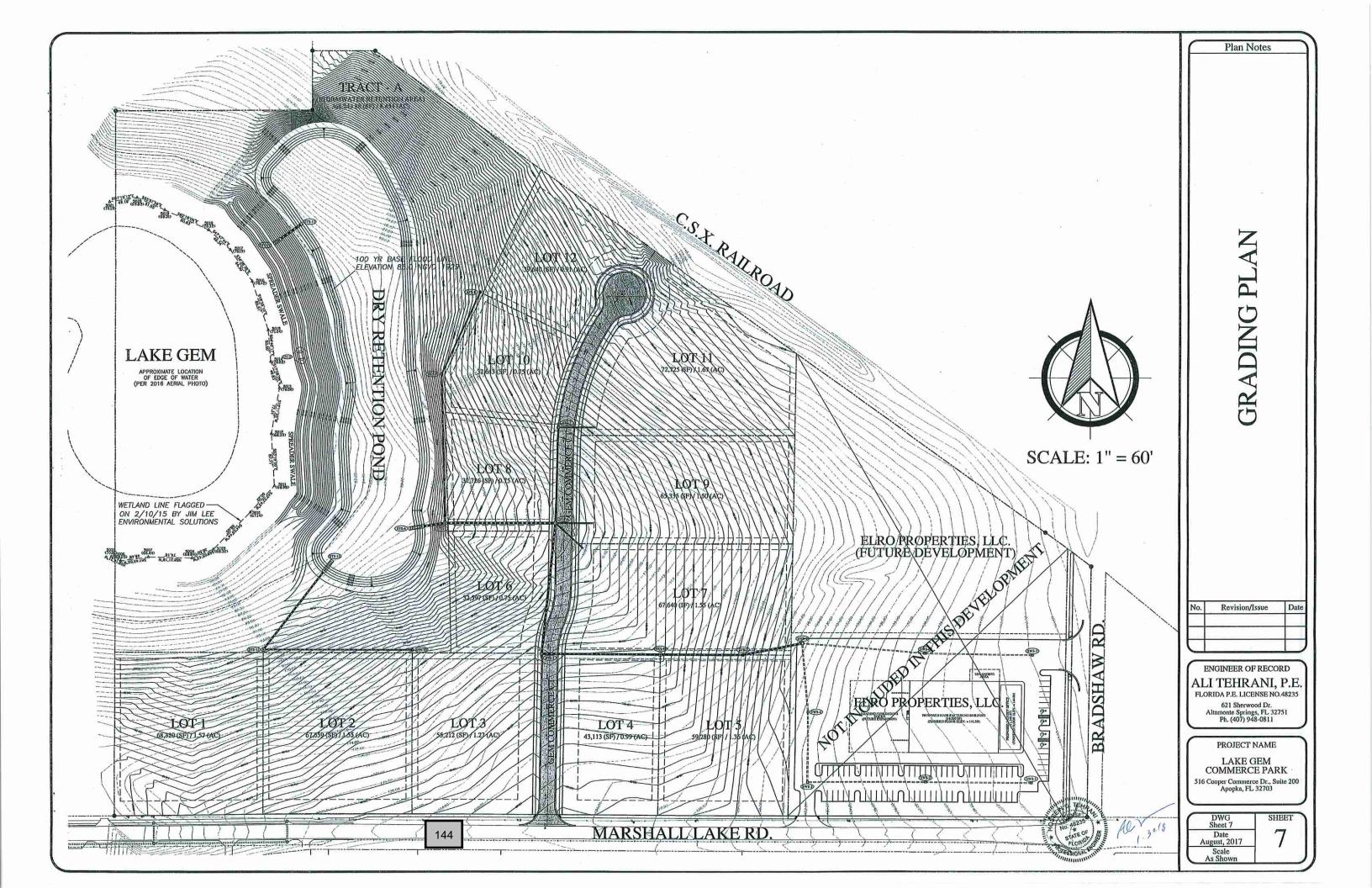
516 Cooper Commerce Dr., Suite 200 Apopka, FL 32703

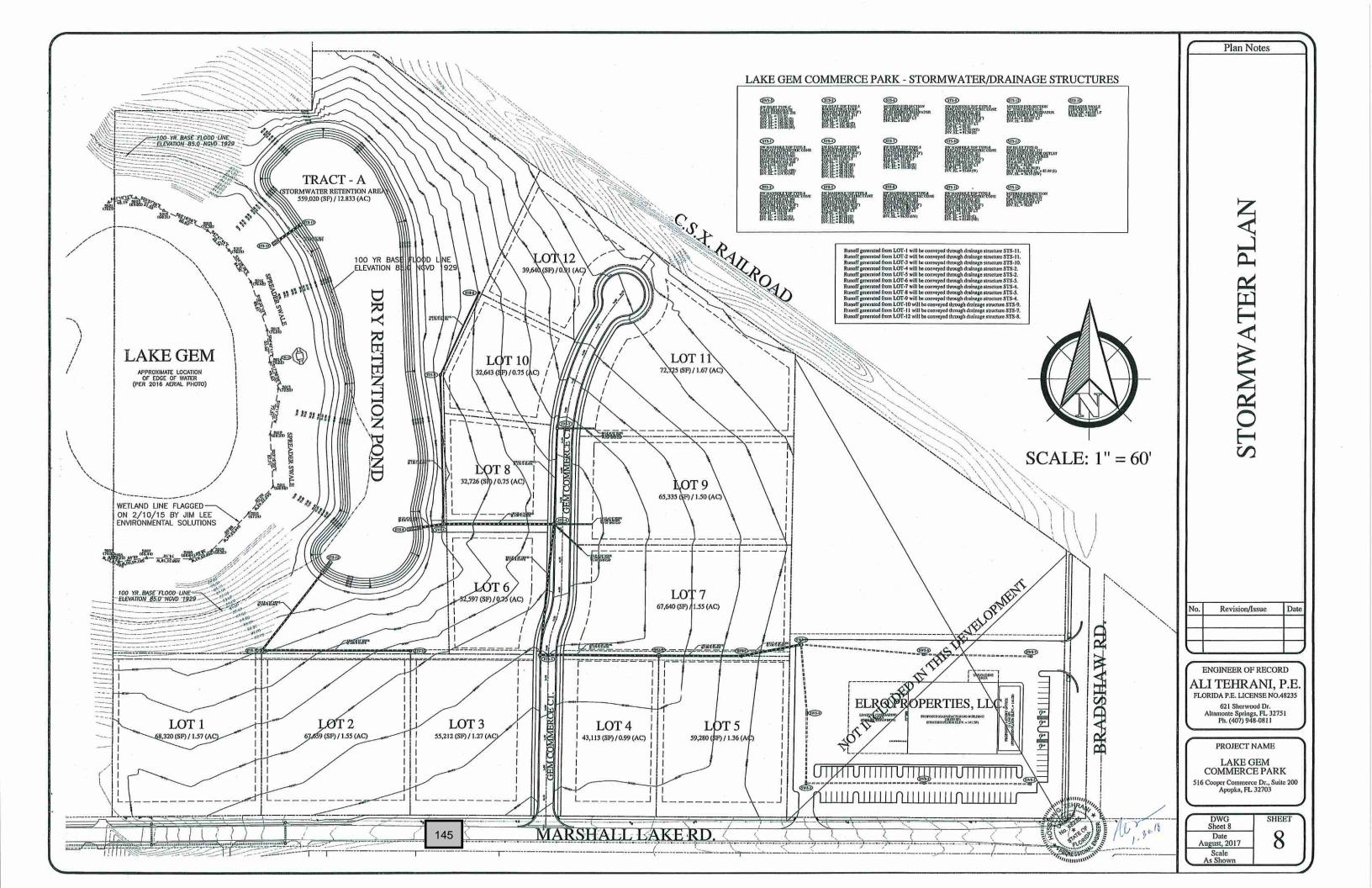
DWG
Sheet 4

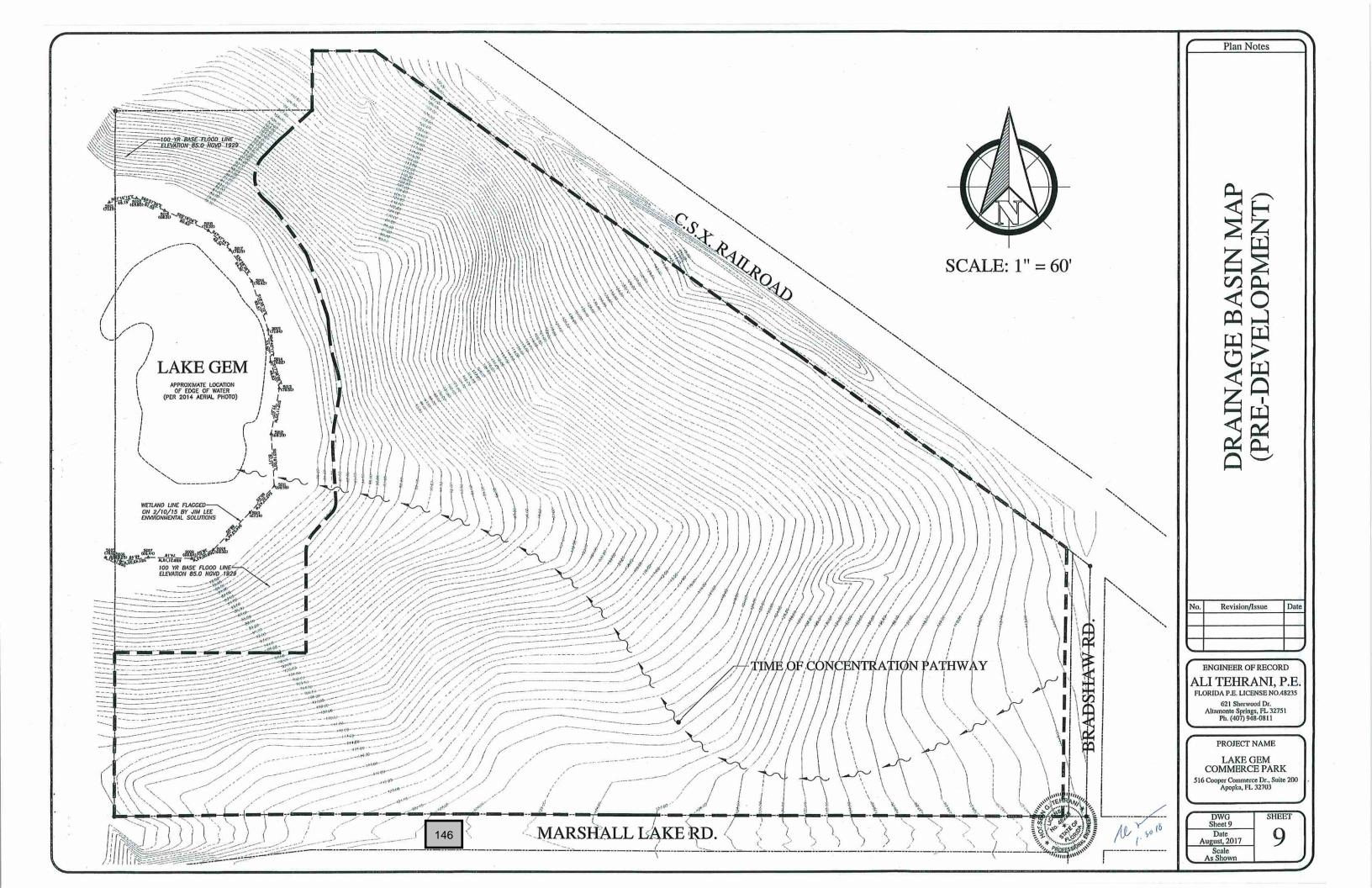
Date
August, 2017
Scale
As Shown

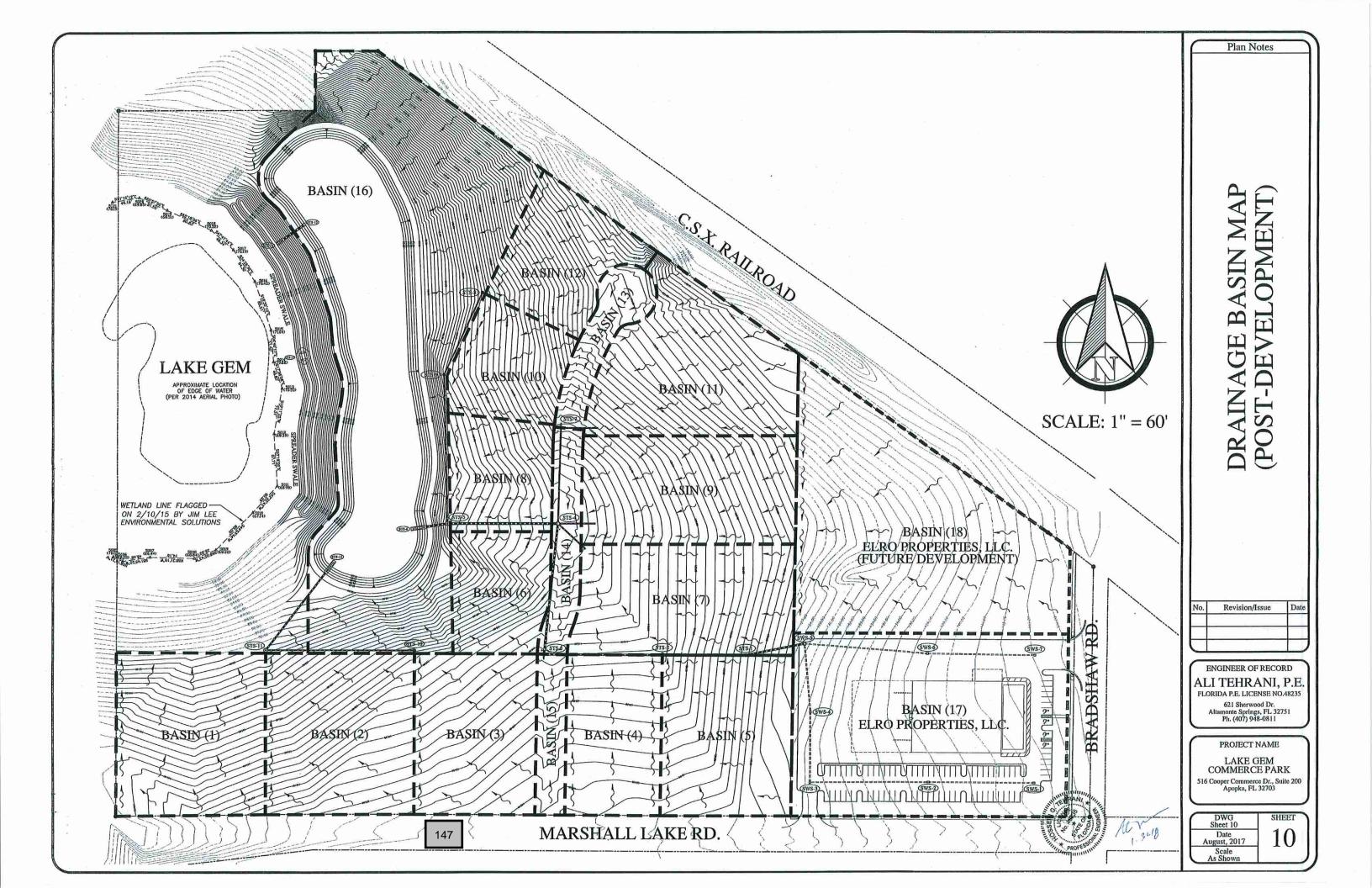


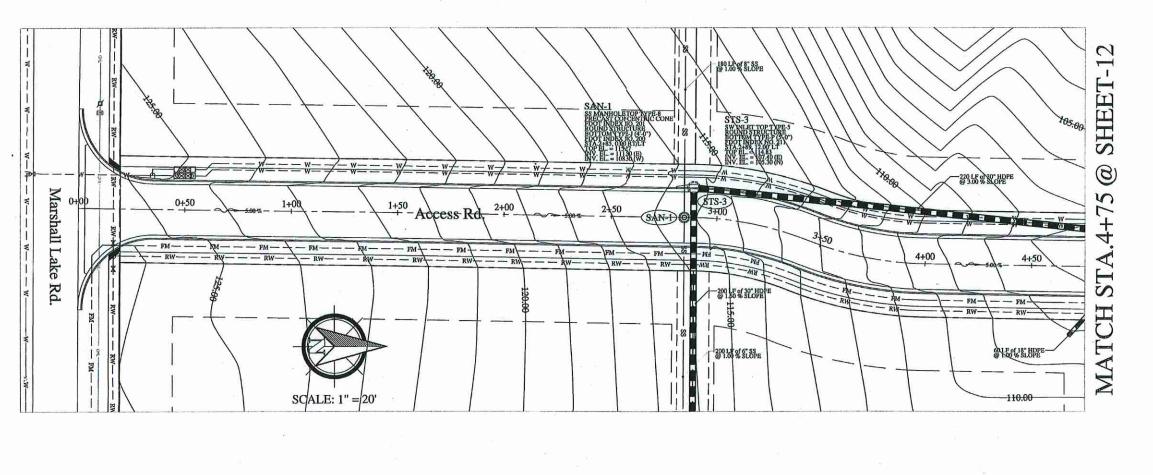


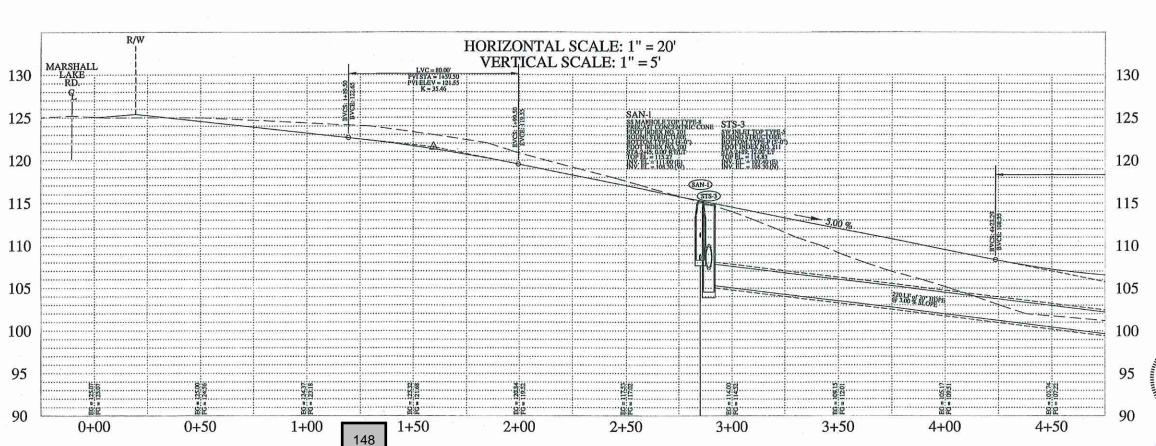












Plan Notes

# PLAN AND PROFILE VIEW

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No.	Revision/Issue	Dat
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ENGINEER OF RECORD ALI TEHRANI, P.E. FLORIDA P.E. LICENSE NO.48235

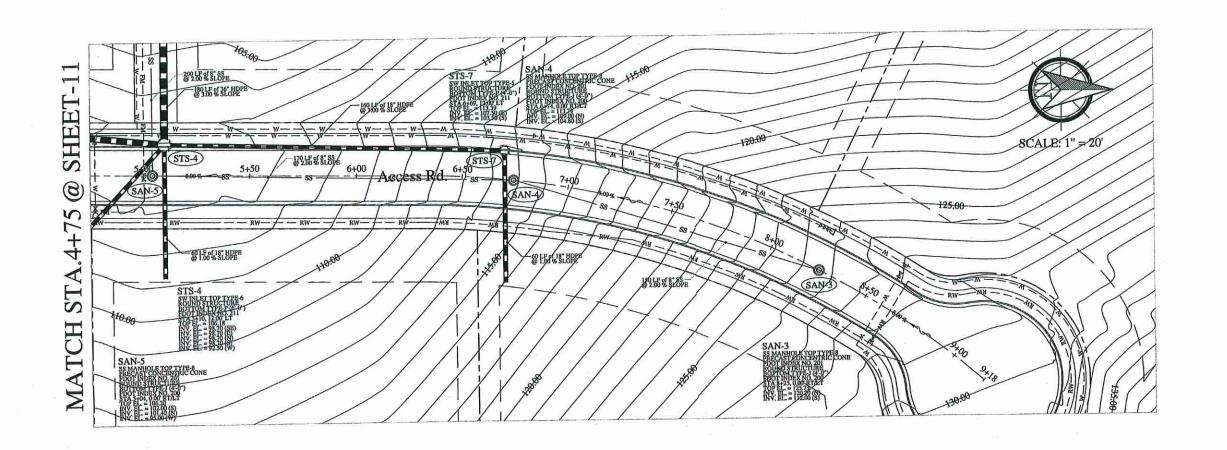
621 Sherwood Dr. Altamonte Springs, FL 32751 Ph. (407) 948-0811

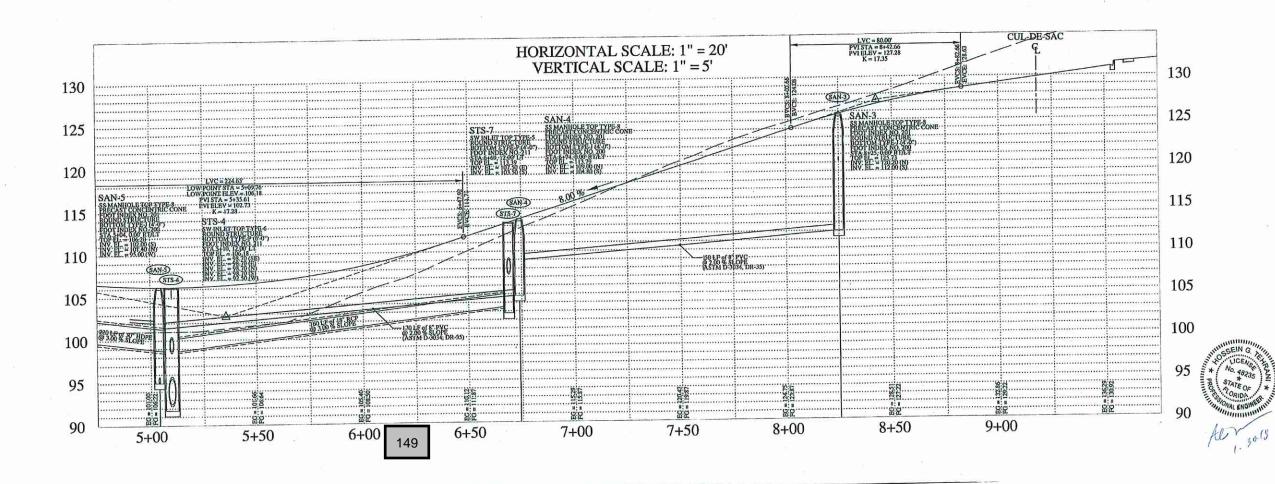
PROJECT NAME

LAKE GEM

LAKE GEM COMMERCE PARK 516 Cooper Commerce Dr., Suite 200 Apopka, FL 32703

DWG Sheet 11-12	SHEET
Date August, 2017	11
Scale As Shown	





Plan Notes

# PLAN AND PROFILE VIEW

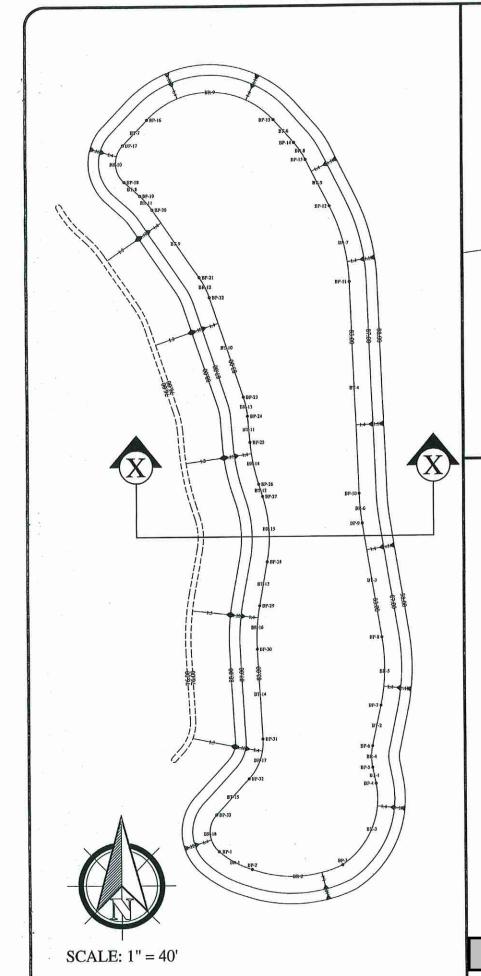
No.	Revision/Issue	Date

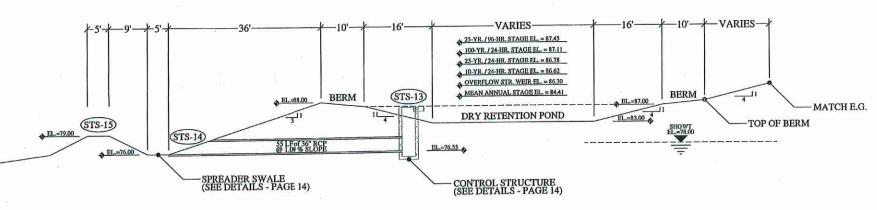
ENGINEER OF RECORD
ALI TEHRANI, P.E.
FLORIDA P.E. LICENSE NO.48235
621 Sherwood Dr.
Altamonte Springs, FL 32751
Ph. (407) 948-0811

PROJECT NAME

LAKE GEM COMMERCE PARK 516 Cooper Commerce Dr., Suite 200 Apopkn, FL 32703

SHEET
0.00
117





### DRY RETENTION POND SECTIONAL VIEW "X" - "X" (TYP.)

SCALE: 1'' = 10'

11		POINT DA	TA	
Point No.	Description	Elevation	Northing	Easting
BP-1	Bottom of Pond	83.00'	79568.4932	87610.2013
BP-2	Bottom of Pond	83.00'	79551.6177	87641.3347
BP-3	Bottom of Pond	83.00'	79555.3097	87726.1020
BP-4	Bottom of Pond	83.00'	79631.5472	87758.2979
BP-5	Bottom of Pond	83.00'	79646.7720	87755.3124
BP-6	Bottom of Pond	83.00'	79666.9847	87755.4306
BP-7	Bottom of Pond	83.00'	79705.0569	87763.3600
BP-8	Bottom of Pond	83.00'	79768.9580	87764,6782
BP-9	Bottom of Pond	83.00'	79876.0346	87746.9490
BP-10	Bottom of Pond	83.00'	79903.9700	87744.0920
BP-11	Bottom of Pond	83.00'	80103.0507	87736.1737
BP-12	Bottom of Pond	83.00'	80174.3142	87717.7592
BP-13	Bottom of Pond	83,00'	80218.3398	87695,6176
BP-14	Bottom of Pond	83.00'	80234.2837	87684.7897
BP-15	Bottom of Pond	83.00'	80255.9705	87665.4919
BP-16	Bottom of Pond	83.00'	80256.4931	87546.6879
BP-17	Bottom of Pond	83.00'	80232.7259	87523.8637
BP-18	Bottom of Pond	83.00'	80198.3242	87525.0515
BP-19	Bottom of Pond	83.00'	80185.1995	87539.5237
BP-20	Bottom of Pond	83,00'	80171.9243	87551.1192
BP-21	Bottom of Pond	83.00'	80108.0391	87594.9888
BP-22	Bottom of Pond	83.00'	80089.2407	87604.3743
BP-23	Bottom of Pond	83.00	79995.4183	87635.9239
BP-24	Bottom of Pond	83.00	79977.3843	87639.6352
BP-25	Bottom of Pond	83.00'	79952.8203	87641.6424
BP-26	Bottom of Pond	83.00'	79913.3138	87649.5508
BP-27	Bottom of Pond	83.00	79901.8425	87653.2711
BP-28	Bottom of Pond	83.00	79840.6808	87657.4288
BP-29	Bottom of Pond	83.00'	79799.3596	87650.0011
BP-30	Bottom of Pond	83.00'	79758.5090	87647.5478
BP-31	Bottom of Pond	83.00'	79674.2794	87652.4289
BP-32	Bottom of Pond	83.00'	79636.8441	87639,0883
BP-33	Bottom of Pond	83.00'	79603.0511	87608.0736

		ARCH DA	ГА	
Arch No.	Direction	Elevation	Radius	Length
BR-1	BP-1 BP-2	83.00'	77,805'	35.726
BR-2	BP-2 BP-3	83.00'	108.842'	87.158
BR-3	BP-3 BP-4	83.00'	74.048'	87.819
BR-4	BP-5 BP-6	83.00'	51.000'	20.348
BR-5	BP-7 BP-8	83.00'	174.000'	64.280
BR-6	BP-9 BP-10	83.00'	226.000'	28.099
BR-7	BP-11-BP-12	83.00'	174.000'	74.164
BR-8	BP-13-BP-14	83.00'	74.000'	19.328'
BR-9	BP-15-BP-16	83.00'	80.791'	133.475
BR-10	BP-17-BP-18	83.00'	24.000'	38.384'
BR-11	BP-19-BP-20	83.00'	76.000'	17.666
BR-12	BP-21-BP-22	83.00'	76.000'	21.079
BR-13	BP-23-BP-24	83.00'	76.000'	18.457
BR-14	BP-25-BP-26	83.00'	174.000'	40.381'
BR-15	BP-27-BP-28	83.00'	126.000'	61.924
BR-16	BP-29-BP-30	83.00'	174.000'	41.019
BR-17	BP-31-BP-32	83.00'	51.000'	40.823
BR-18	BP-33- BP-1	83.00'	24.060'	38.637

Arch No.	Direction	Elevation	Direction	Length
BT-1	BP-4 BP-5	83.00'	N 11°05'41" W	15.509
BT-2	BP-6 BP-7	83.00'	N 11°45'54" E	38.889
BT-3	BP-8 BP-9	83.00'	N 09°24'05" W	108.534
BT-4	BP-10-BP-11	83.00'	N 02°16'40" W	199.238
BT-5	BP-12-BP-13	83.00'	N 26°41'56" W	49.280
BT-6	BP-14-BP-15	83,00'	N 41°39'50" W	29.030
BT-7	BP-16-BP-17	83.00'	S 43°50'26" W	32.952
BT-8	BP-18BP-19	83.00'	S 47°47'44" E	19.537
BT-9	BP-20 BP-21	83.00'	S 34°28'38" E	77.498'
BT-10	BP-22-BP-23	83.00	S 18°35'10" E	98.985'
BT-11	BP-24-BP-25	83.00	S 04°40'17" E	24.646'
BT-12	BP-26-BP-27	83.00	S 17°58'06" E	12.060
BT-13	BP-28-BP-29	83.00'	S 10°11'25" W	41.983
BT-14	BP-30-BP-31	83,00	S 03°19'00" E	84.371
BT-15	BP-32-BP-33	83.00'	S 42°32'43" W	45.877

DRY RETENTION POND GEOMETRY
& CROSS SECTIONAIL VIEW

Plan Notes

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ENGINEER OF RECORD
ALI TEHRANI, P.E.
FLORIDA P.E. LICENSE NO.48235

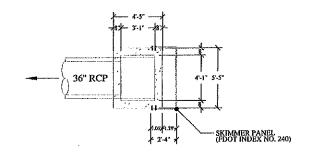
621 Sherwood Dr. Altamonte Springs, FL 32751 Ph. (407) 948-0811

PROJECT NAME

LAKE GEM COMMERCE PARK

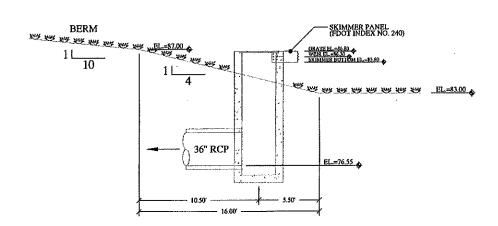
516 Cooper Commerce Dr., Suite 200 Apopka, FL 32703

DWG Sheet 13	SHEET
Date August, 2017	13
Scale As Shown	



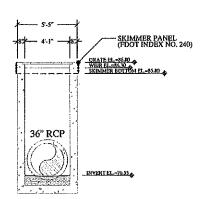
#### OUTLET CONTROL STRUCTURE MODIFIED TYPE-D DBI FDOT INDEX NO. 232 PLAN VIEW (TYP.)

N.T.S.



#### OUTLET CONTROL STRUCTURE MODIFIED TYPE-D DBI FDOT INDEX NO. 232 PROFILE VIEW (TYP.)

N.T.S.



OUTLET CONTROL STRUCTURE MODIFIED TYPE-D DBI FDOT INDEX NO. 232 SECTIONAL VIEW (TYP.)

N.T.S.

9' 10' 9' EL=76.00

EL=76.00

EL=79.00

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EL=79.00

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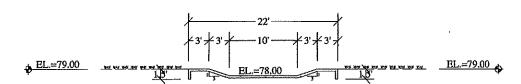
EL=76.00

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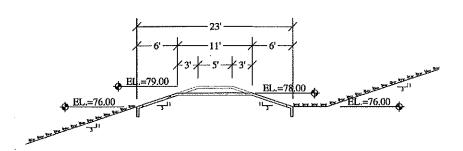
## SPREADER SWALE WEIR PLAN VIEW (TYP.)

N.T.S.



# SPREADER SWALE WEIR SECTIONAL VIEW (X - X)

N.T.S.



SPREADER SWALE WEIR SECTIONAL VIEW (Y - Y)

N.T.S.



STRUCTURES DETAILS DRY RETENTION POND OVERFLOW

Plan Notes

No.	Revision/Issue	Date
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ENGINEER OF RECORD

ALI TEHRANI, P.E. FLORIDA P.E. LICENSE NO.48235

621 Sherwood Dr. Altemonte Springs, FL 32751 Ph. (407) 948-0811

PROJECT NAME

LAKE GEM COMMERCE PARK

516 Cooper Commerce Dr., Suite 200 Apopka, FL 32703

DWG
Sheet 14

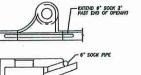
Date
August, 2017

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PROFILE

THE WIDTH SHOULD BE AT IPAST 10 TEST TO 12 TEST OR AS MOSE OF THE BUTTHE WORTH THE ACCESS. AT SITES MINES THAT TO THE IS NOW, THE DITTAGE SHOULD BE WIDE BROUGH FOR THE VERICLES TO PASS SUCTIVE.

4. FROR TO FLACING GEOTETILE (FRIER FABRIC) LINKE SURE THAT THE DITTRANCE IS PROPERLY GRACED AND COMPACIED.



CURB INLET SEDIMENT BARRIER

IGNATURE & DATE

DESCRIPTION OF PROJECT

SOIL DISTURBING ACTIVITIES WILL INCLUDE: CLEARING AND GRUBBING; INSTALLING A STABLIZED CONSTRUCTION ENTRANCES, PERMETER AND OTHER EROSION AND SEQUENT CONTROLS; GRUBBING; EXCAVATION FOR THE STORMANER POWER, STORM SEWER, UTILITIES, CURB A GUTTER, RODBINY AND PARCEL DEVELOPMENT AND PREPARATION FOR PERMETER PLANTING AND SECONIC.

#### SEQUENCING OF ACTIVITIES

- 1. INSTALL STABLIZED CONSTRUCTION ENTRANCE.
- 2. INSTALL DOWNSLOPE AND SIDESLOPE PERIMETER CONTROLS. (E.G. SILT FENCE.)
- CONDUCT CLEARING, GRUBBING AND, IF APPLICABLE, DEVICUTION ACTIVITIES.

- 2. THE "LIMITS OF DISTURBANCE" LINE SHOWN ON THIS PLAN INDICATES THE POINT BEYOND WHICH THE EXISTING VEGETATION SHOULD NOT BE IMPACTED.

- 15. TURF REQUIREMENT MATS SHALL BE INSTALLED WHERE STORMWATER PIPES OUTFALL AT GRADE OR IN SPREADER SWALES.
- NOTICE OF TERMINATION FOR THE WASSE CONSTRUCTION GENERAL PERMIT SHALL BE SUBMITTED TO THE FEDE MORES OF INDITIES CONTRI WITHIN I AND SET THE OTHER HIMEN ALL THE PARES OF THE SITE NOT OMNERSE COVERED Y A IT PARESIET OF STRUCTURE HAVE BEEN STABLIZED WITH A UNIFORM PERENNAL VEGETATIVE COVER WITH A DENSITY OF OR CHEATER.

Plan Notes

POLLUTION PREVENTION PL

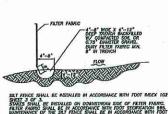
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ENGINEER OF RECORD ALI TEHRANI, P.E

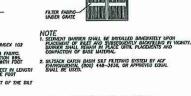
FLORIDA P.E. LICENSE NO.48235 621 Sherwood Dr. Altamonte Springs, FL 32751 Ph. (407) 948-0811

LAKE GEM COMMERCE PARK 516 Cooper Commerce Dr., Suite 200 Apopka, FL 32703

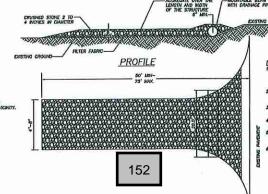
DWG Sheet 15	SHEET
Date August, 2017	15
Scale As Shown	

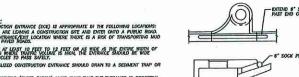


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SHULL BE PROULED ON DOWNSTIPAN SOC OF FATER FAMING.
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FAMEN SHULL BE IN ACCORDANCE WITH FOOT SEEPS LAND WERE
FAMEN SHUT SHULL SHULL BE IN ACCORDANCE WITH FOOT
SECRET SHUT SHULL SHULL BE SEVILLED WITH ONE FEET IN LEDNIN
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THE SEDMENT SHULL BE RELIVED.



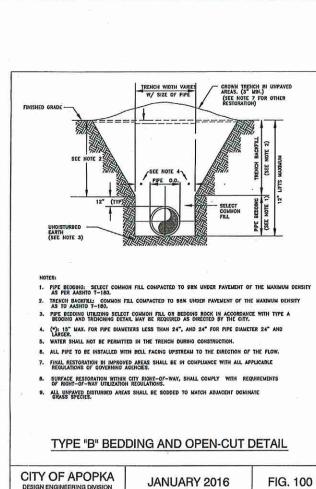


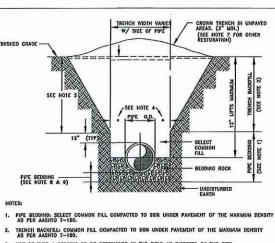




B. PROPECT THE SUMMITTED CONSTRUCTION DISTRICTS ON A REQUIAR BOSS AND AFTER THERE HAS BEEN A MOST YOUNG OF TRAFFIC OR STORM DOWN. "APPLY ADMINISTRAL STONE PERSONCHLY AND THE PARKET SECURITY OF ANY OTHER MATERIALS TRACKED WITO THE PURPLY ROADWAY.
B. DWAEDWIELLY REMOVE SEEMEDITS OR ANY OTHER MATERIALS TRACKED WITO THE PURPLY ROADWAY.

DURKER SHALL BE INSTALLED MAKEDINELY UPON PLACEMENT OF INLET AND SUBSSOURH BUCKTLERS IN YICHITY, BARKER SHALL REIMN IN PLACE UNITE, PLACEMENT AND COMPACTION OF INSE.

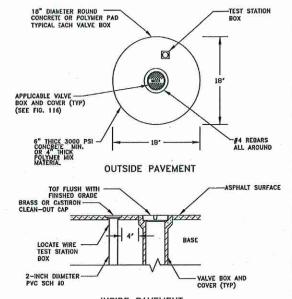




- 4. (4): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AHD 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
- 6, ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
- GRAVITY SEWERS SHALL UTILIZE TYPE A BEDDING IF REQUIRED BY THE CITY. BEDDING DEPTH SHALL
  BE A" MANUAUM FOR PIPE DIAMETER LESS THAN 15" AND LARGER.
- B. ALL UNPAYED DISTURBED AREAS SHALL BE SODDED TO MATCH ADJACENT DOMINAT ORASS SPECIES.
- FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REQUIATIONS OF THE GOVERNING AGENCIES. SURFACE RESTORATION WITHIN CITY RICHT-OF-WAY, SHALL COMPLY WITH REQUIREMENTS OF RICHTO-WAY UTILIZATION REGULATIONS.

#### TYPE "A" BEDDING AND OPEN-CUT DETAIL

JANUARY 2016



INSIDE PAVEMENT

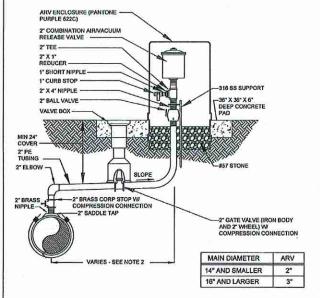
VALVE IDENTIFICATION TAG TO BE INSTALLED BY CITY & PAID FOR BY DEVELOPER

#### VALVE BOX

CITY OF APOPKA

FIG. 101

FIG. 116



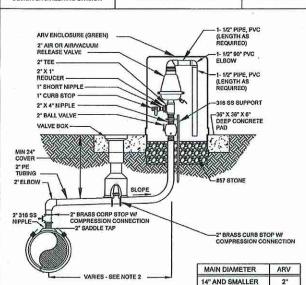
CITY OF APOPKA

- NOTES:

  1. FOR RECLAIMED WATER USE ONLY.
  2. OFFSET DISTANCE TO BE FIELD DETERMINED AND AS CLOSE TO THE RAW LINE AS POSSIBLE
- ADJUST HORIZONTAL LOCATION OF SIDEWALK, AS REQUIRED TO AVOID ARV ENCLSOURE.
   LOCATE ARV ENCLOSURE WITHIN 6" OF RAW LINE.

#### OFFSET COMBINATION AIR/VACUUM RELEASE VALVE DETAIL - RECLAIMED WATER ONLY

JANUARY 2016



16" AND LARGER

FIG. 114

CITY OF APOPKA

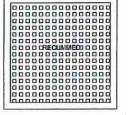
- NOTES:

  1. FOR WASTEWATER USE ONLY,

  2. OFFSET DISTANCE TO BE FIELD DETERMINED AND AS CLOSE TO THE RW LINE AS
- ADJUST HORIZONTAL LOCATION OF SIDEWALK, AS REQUIRED TO AVOID ARV ENCLSOURE.
   LOCATE ARV ENCLOSURE WITHIN 6" OF RW LINE.

OFFSET AIR OR COMBINATION AIR/VACUUM RELEASE VALVE DETAIL - WASTEWATER ONLY

JANUARY 2016



CITY OF APOPKA



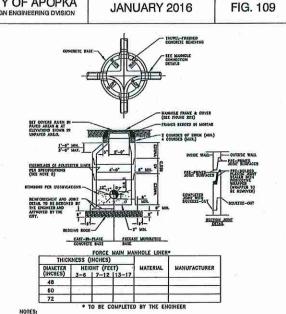




CITY OF APOPKA

#### TYPICAL VALVE BOX COVER DETAILS

JANUARY 2016



MANHOLE SHOWN IS FOR SEWER SIZE 8" THRU 24". SEE SECTION 20.4 OF THE MANUAL FOR MANHOLE DIAMETER FOR SEWERS LARGER THAN 24".

- EACH BENCH WALL SHALL BE A MINIMUM OF 18 INCHES LONG FROM THE WALL OF THE MAPHOLE TOWARD THE CENTER.

#### TYPICAL MANHOLE

CITY OF APOPKA JANUARY 2016 FIG. 200

CITY OF APOPKA

FIG. 201

FIG. 113

INSIDE DROF - PLAN

TIONS FOR SERVICES AND COLLECTOR SEWERS SHALL USE

TRIM PIPE TO 2" MAX.

# DET/

Plan Notes

Revision/Issue

ENGINEER OF RECORD ALI TEHRANI, P.E FLORIDA P.E. LICENSE NO.48235

Altamonte Springs, FL 32751 Ph. (407) 948-0811

PROJECT NAME

COMMERCE PARK

516 Cooper Commerce Dr., Suite 200 Apopka, FL 32703

SHEET Sheet 16-19 16 August, 2017

153

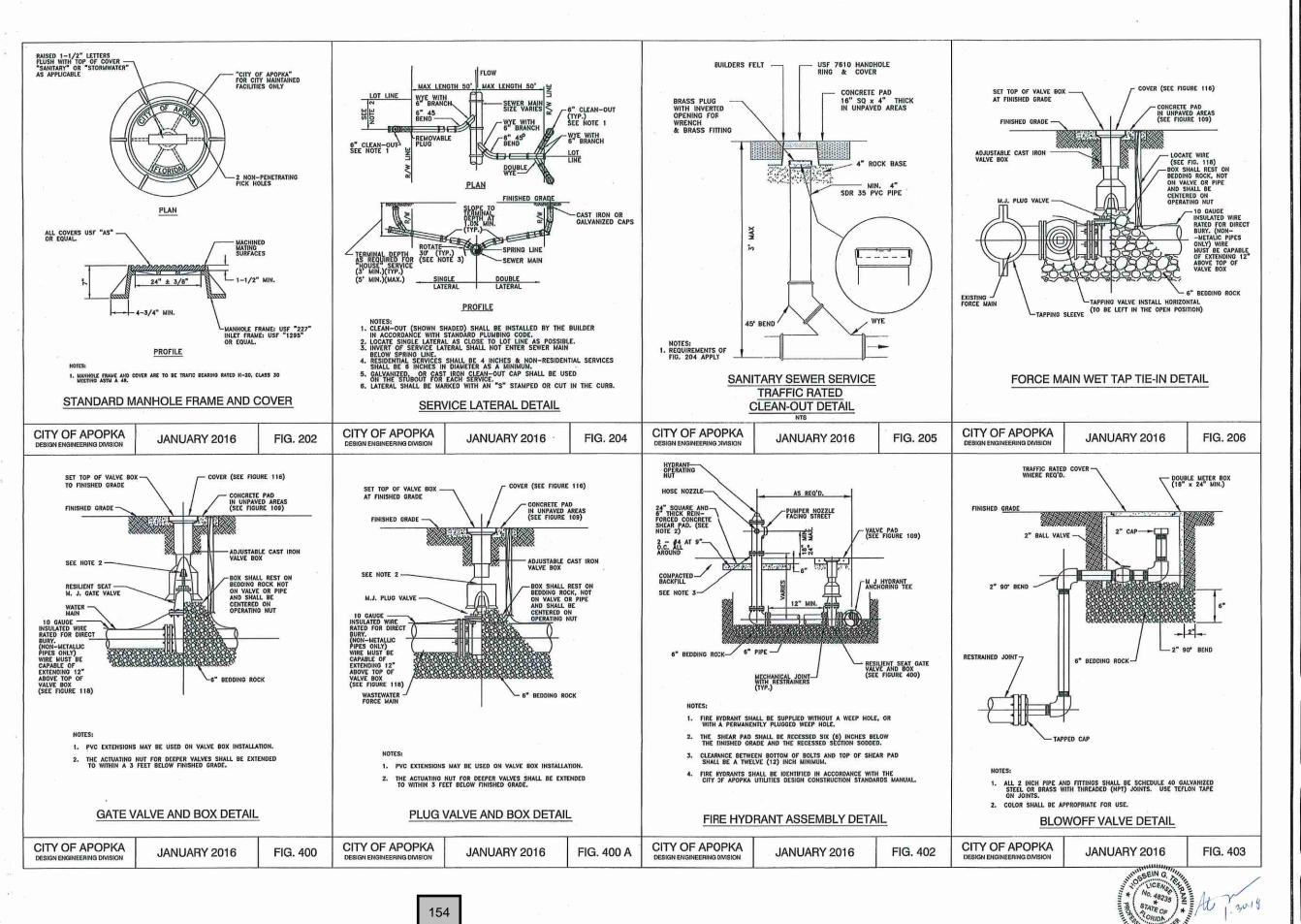
No. 48235 STATE OF

PVC 9

- DROP PIPE AND FITTINGS SHALL BE OF EQUAL SIZE AND MATERIAL AS THE INFLUENT SEWER.
   HE CITY MAY APPROVE ALTERNATE WATERTIGHT CONNECTION DETAILS FOR CONNECTION OF 24 DIAMETER PIPES AND LANGER.
- 3. AN INSIDE DROP CONNECTION SHALL BE REQUIRED FOR ALL INFLUENT WHICH HAVE AN INVERT 24"
  4. CONCRETE TO BE MINIMUM OF 3000 PSI.

MANHOLE CONNECTION DETAILS

JANUARY 2016



Plan Notes

AII DET/

No.	Revision/Issue	Date

ENGINEER OF RECORD ALI TEHRANI, P.E FLORIDA P.E. LICENSE NO.48235

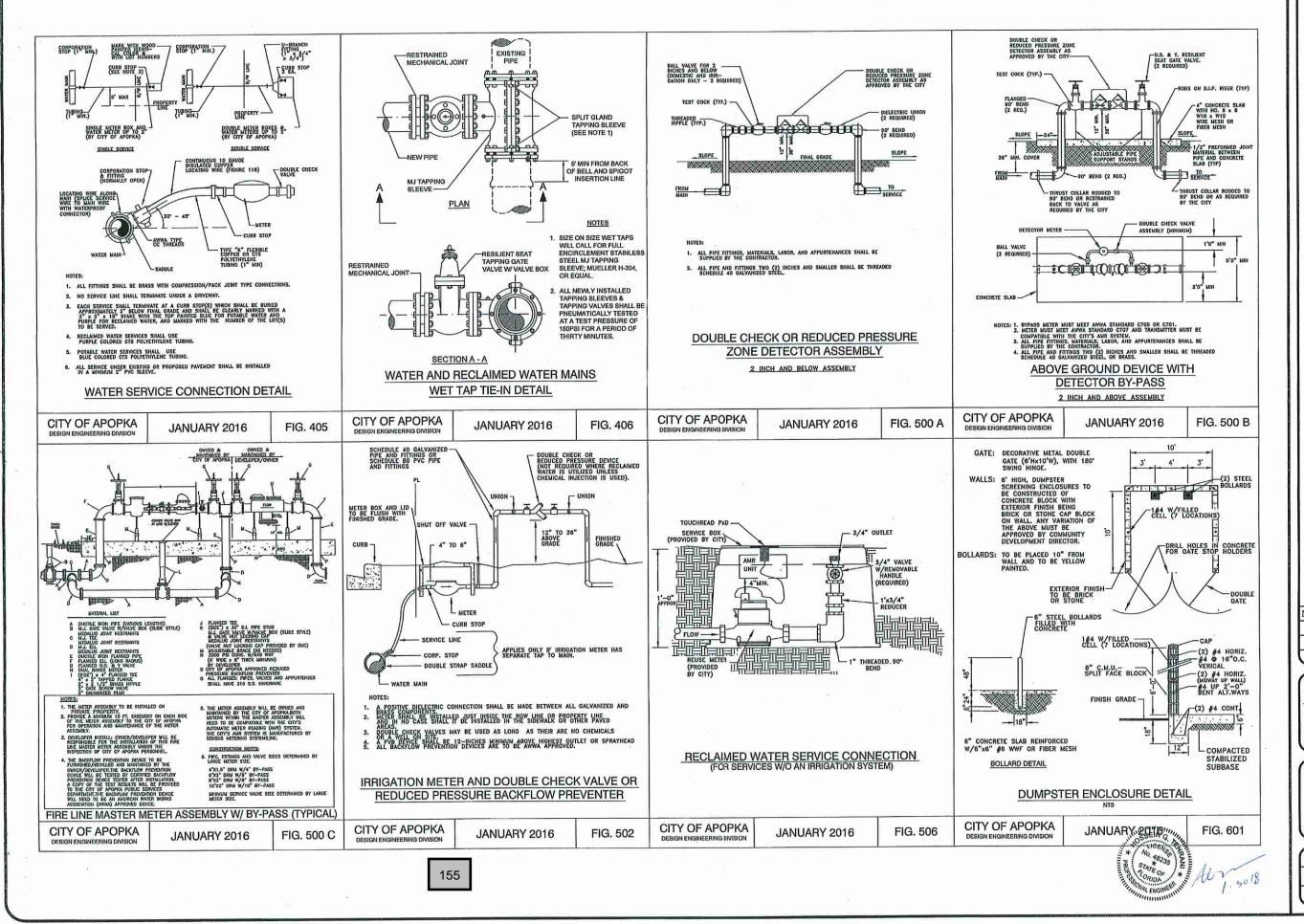
621 Sherwood Dr. Altamonte Springs, FL 32751 Ph. (407) 948-0811

PROJECT NAME

LAKE GEM COMMERCE PARK

516 Cooper Commerce Dr., Suite 200 Apopka, FL 32703

DWG Sheet 16-19	SHEE
Date August, 2017	17
Scale As Shown	



ILITY DETAILS

Plan Notes

No. Revision/Issue Date

ENGINEER OF RECORD

ALI TEHRANI, P.E.
FLORIDA P.E. LICENSE NO.48235

621 Sherwood Dr. Altamonte Springs, FL 32751 Ph. (407) 948-0811

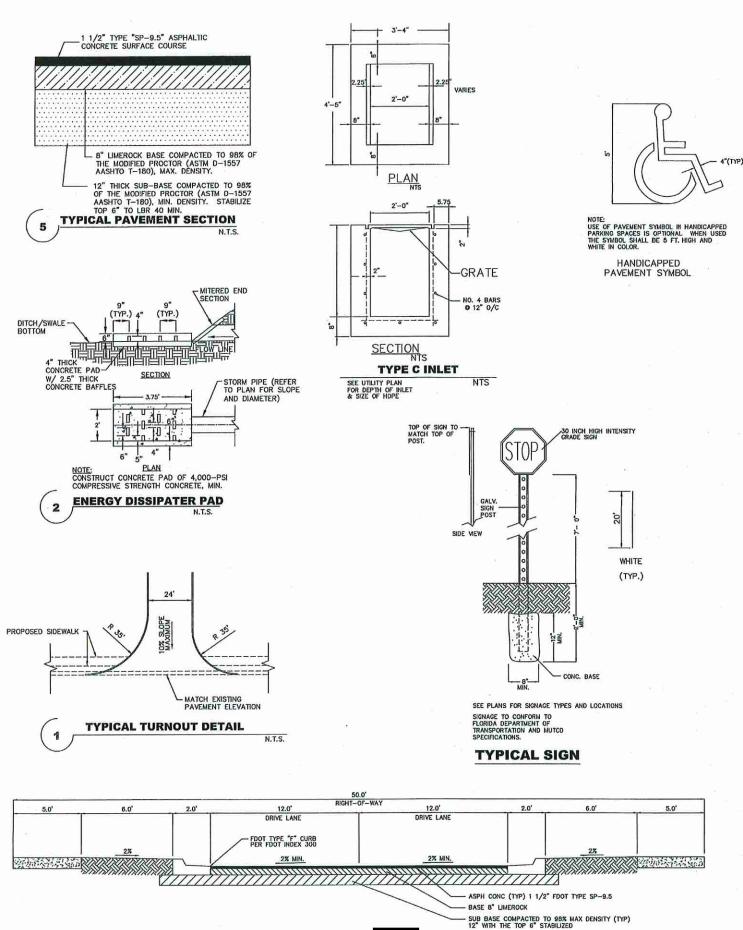
PROJECT NAME

LAKE GEM

COMMERCE PARK 516 Cooper Commerce Dr., Suite 200 Apopka, FL 32703

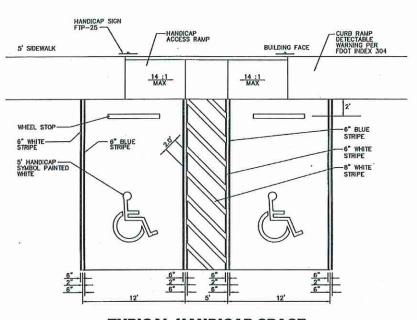
DWG
Sheet 16-19
Date
August, 2017
Scale

Sheet 16-19
18

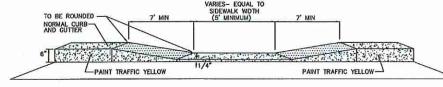


TYPICAL ENTRANCE

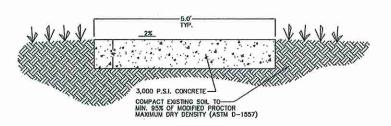
SECTION



TYPICAL HANDICAP SPACE



DROP CURB AT CROSSWALK DETAIL
NOT TO SCALE



TYPICAL SIDEWALK DETAIL

NOT TO SCALE



CONSTRUCTION DETAILS

Plan Notes

Revision/Issue Date

ENGINEER OF RECORD ALI TEHRANI, P.E FLORIDA P.E. LICENSE NO.48235

621 Sherwood Dr. Altamonte Springs, FL 32751 Ph. (407) 948-0811

PROJECT NAME

LAKE GEM COMMERCE PARK 516 Cooper Commerce Dr., Suite 200 Apopka, FL 32703

DWG
Sheet 16-19
Date
August, 2017
Scale
As Shown

#### RILEY & COMPANY, INC. SANFORD, FL 32773 (407)265-9963

NO SUBSTITUTIONS - NO ALTERNATES LIFT STATION WILL BE PRIVATELY OWNED AND MAINTAINED.

The H-20 Load Rated Fiberglass Wetwell Must Be Manufactured By L.F. Manufacturing, Giddings, Texas, Which Includes A Written 20 Yr. Warranty, Certification of the wetwell H-20 load rating must be supplied with submittals. H-20 certification must be signed and sealed by an engineer registered in the

After the H-20 load rated wetwell has been installed, the ASTM Certification Number and Serial Tracking Number must be visible.

#### PUMPS: (3 YR. WARRANTY)

Submersible grinder pumps shall be HOMA Model GRP44/3. The pumps shall be Submessible grinder pumps snain be from a mode (NF4445. The pumps sine in Installed in the H-20 GP FRP wetwell utilizing a slide rail system. The grinder unit shall be capable of macerating materials normally found in domestic and commercial sewage into a fine slurry which will pass through the pump and the Sch.80 PVC discharge piping.

Stator winding shall be open type with Class F insulation and shall be heat-shrink fitted into the stator housing. The use of pins, boits, or other fastening devices is not acceptable.

A heat sensor thermostat shall be attached to the top end of the motor winding and shall be connected in series with the magnetic contactor coil in the control panel to stop motor if winding temperature exceeds 140 C., but shall automatically reset when the winding temperature returns to normal. Two heat sensor thermostats shall be used on three phase motors.

The pump motor grinder shaft shall be AISI 430F SS threaded to take the pump impeller and the grinder impeller, Upper & lower mechanical seals shall be Silicon Carbide vs Silicon

#### DUPLEX CONTROL PANEL: (3 YR. WARRANTY)

To Insure complete unit and warranty responsibility the electrical control panel must be manufactured and built by the pump supplier. The pump supplier must be a TUV (UL508A CERTIFIED) manufacturing facility, with a minuimum of 5 years history in the manufacturing of electrical control panels.

The Enclosure shall be NEMA 4X, minimum 30" high x 30" wide x 10" deep fiberglass with 5 point latching system. The enclosure shall have external mounting feet to allow for wall mounting.

The following components shall be mounted through the enclosure: 1- ea. Red Alarm Beacon (Light) 4" x 4" Minimum Diameter

1- ea. Alarm Horn (minimum 95 DCB) 1- ea. Generator Receptacie w/ weatherproof cover(SCM460 -UL 1686)

The back panel shall be fabricated from .125, 5052-H32 marine alloy aluminum. All components shall be mounted by machined stainless steel

The following components shall be mounted to back panel: 2- ea. Motor Contactors

1- ea. Phase Monitor (3 Ph) w/2 N/O & 1 N/C Contacts

1- ea. Control Transformer (480 Volt Only) (Min. 500VA) 1- ea. Silence Relay Module

1- ea. Duplex Alternator w/ Pump Selector Switch

1- ea. Model RCBB5AH Battery Back-Up w/ Smart Charger For The High Level Alarm System

20- ea. Terminals For Field Connections 6- ea. Terminals For Motor Connections (Single Phase Only)

The inner door shall be fabricated from .080, 5052-H32 marine alloy aluminum. The Inner door shall have a continuous aluminum plano

The following components shall be mounted through the inner door: 1-ea. Main Circuit Breaker

1- ea. Emergency Circuit Breaker 1- ea. Emergency Circuit Breaker 1- ea. Machanical Interlock For Emergency And Main Breakers (UL Listed) 2- ea. Short Circuit Preetors w/ Auxiliary Contacts 1- ea. Control Circuit Breaker

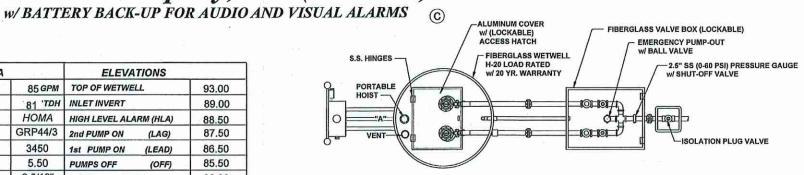
2- ea. Seal Fallure Indicator Lights

2- ea. Pump Run Pilot Lights 1- ea. Power On Pilot Light

2- ea. Elapse Time Meters (Non-Resetable)

RILEY & Company, Inc. (H-20 GP)

**PUMP DATA ELEVATIONS** PRIMARY PUMP CAPACITY 85 GPM TOP OF WETWELL 93.00 81 'TDH INLET INVERT PRIMARY TOH 89.00 HOMA PUMP MANUFACTURER HIGH LEVEL ALARM (HLA) 88.50 GRP44/3 PUMP MODEL# 87.50 2nd PUMP ON 3450 86.50 1st PUMP ON HORSEPOWER 5.50 85.50 **PUMPS OFF** 6 5/16" IMPELLER DIAMETER 83.00 **BOTTOM OF WETWELL** ELECTRICAL/ VOLTS / PHASE 230V/3 WETWELL DIAMETER 60" FULL LOAD AMPS/ PER PUMP 14.20

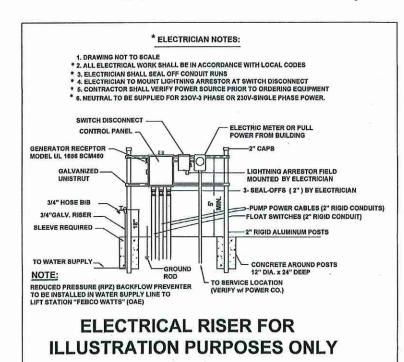


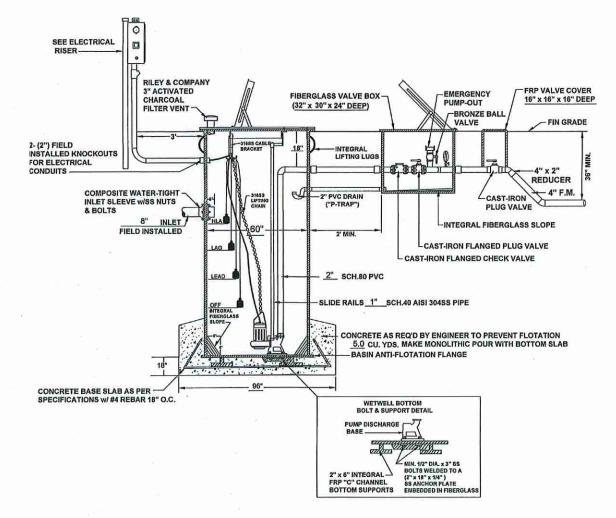
NOTE: PUMP CONTROL PANEL SHALL BE LOCATED 3 FEET FROM WETWELL PERIMETER

#### NOTES:

PUMP DISCHARGE SIZE

- Water service with hose bibb and reduced pressure backflow prevents
  to be installed near lift station. (See Electrical Riser Illustration)
- System shall be operated and maintained to provide uninterrup as required by DEP Chapter 62-604.500.
- 3. Approved Operation & Maintenance Manual(O&M) shall be kept available for operation and maintenance personnel
- A weather resistant emergency contact sign shall be installed at the lift station and made visible to the public (Lettering shall be min. 2" in height.
- 5. INSPECTION & TESTING: A factory representative shall be provide for a one (1) time start-up and shall have complete knowledge of the proper operation and maintenance for the complete system.
- 6. WIRELESS REMOTE ALARM: Model RCWAU 120V / Transmitter and HLA float to





Plan Notes

Revision/Issue

ENGINEER OF RECORD ALI TEHRANI, P.E FLORIDA P.E. LICENSE NO.48235

621 Sherwood Dr. Altamonte Springs, FL 32751 Ph. (407) 948-0811

PROJECT NAME

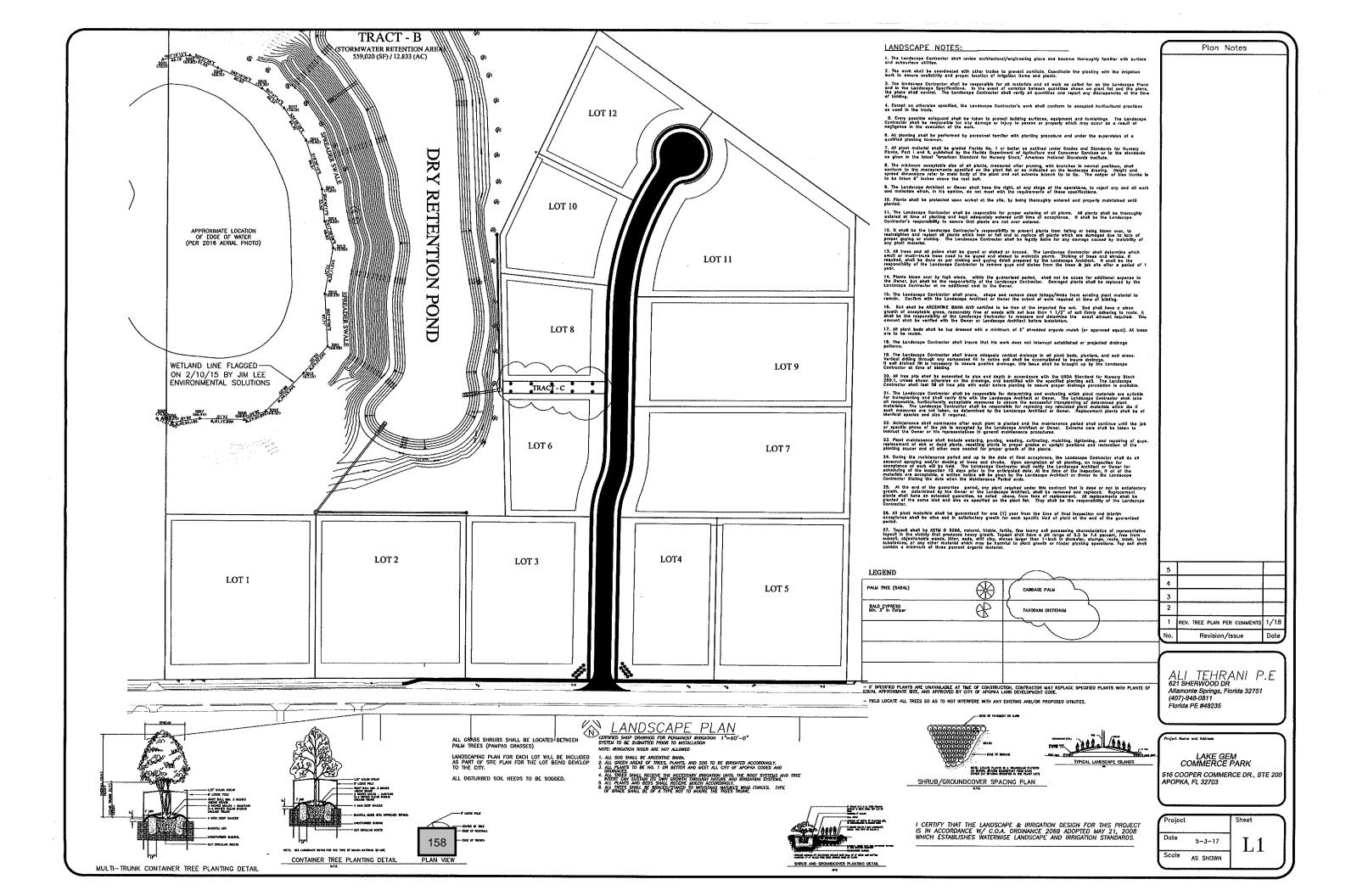
COMMERCE PARK 516 Cooper Commerce Dr., Suite 200 Apopka, FL 32703

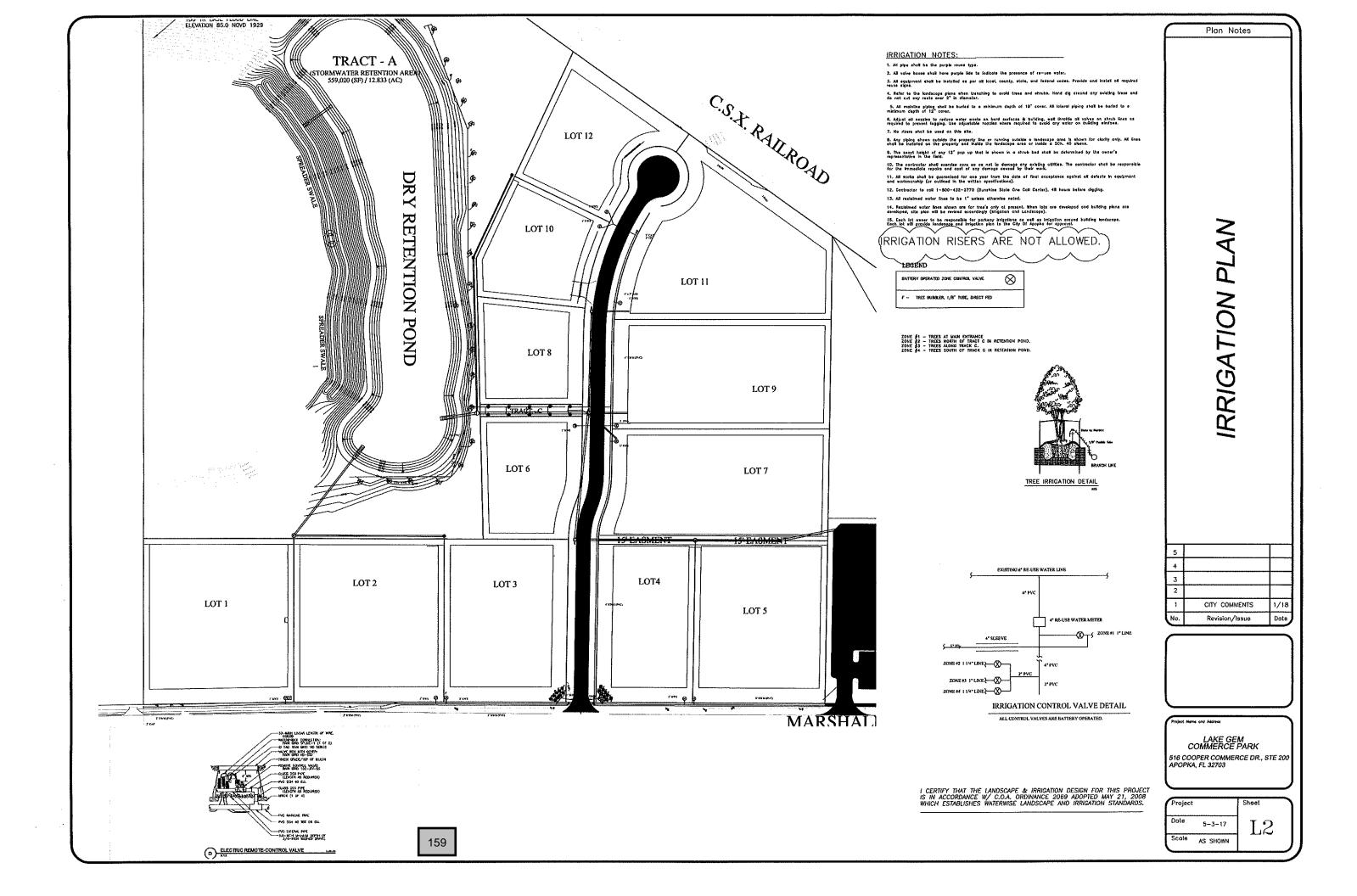
Sheet 20

SHEET August, 2017 Scale

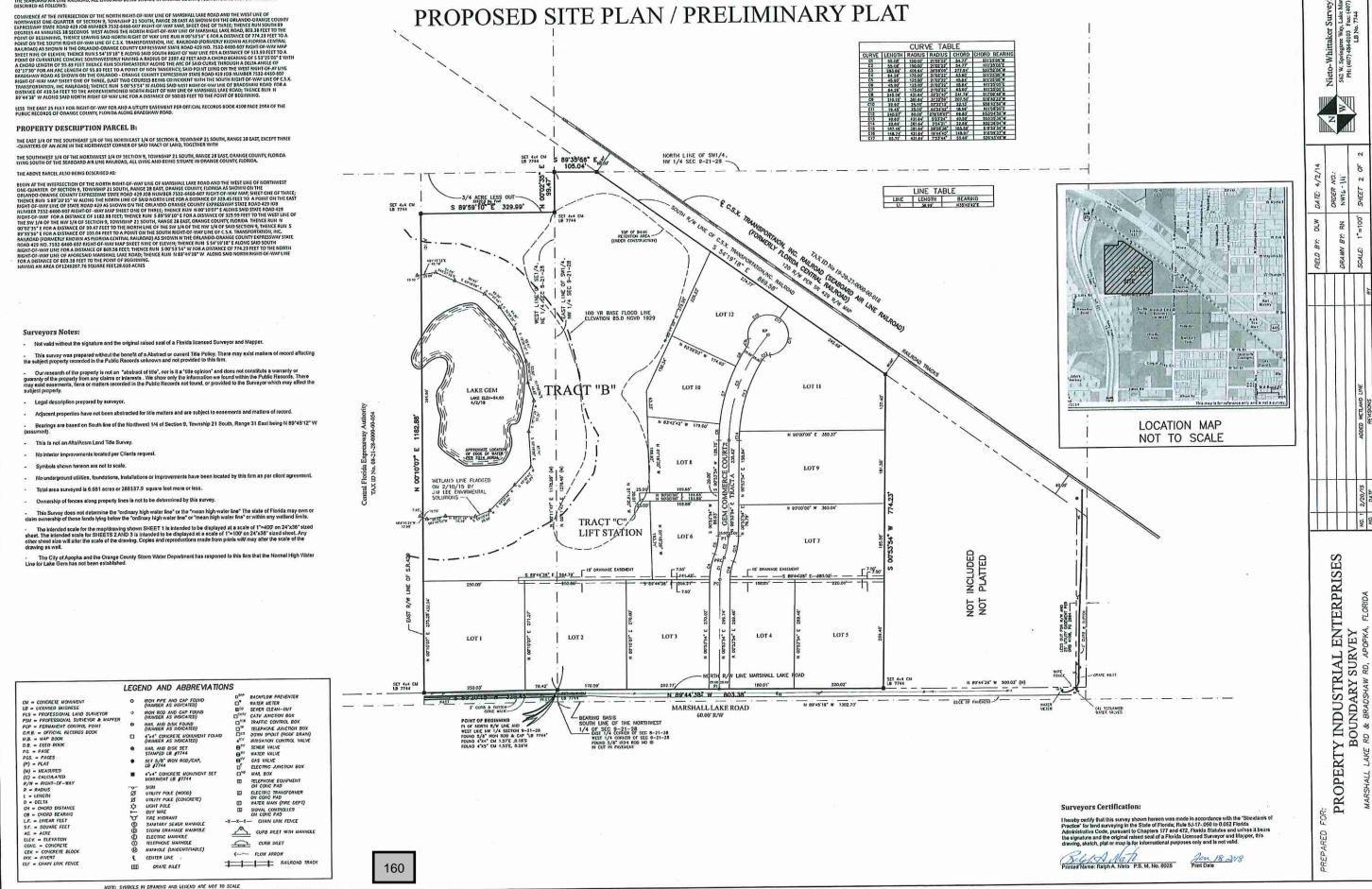
04-12-17

157

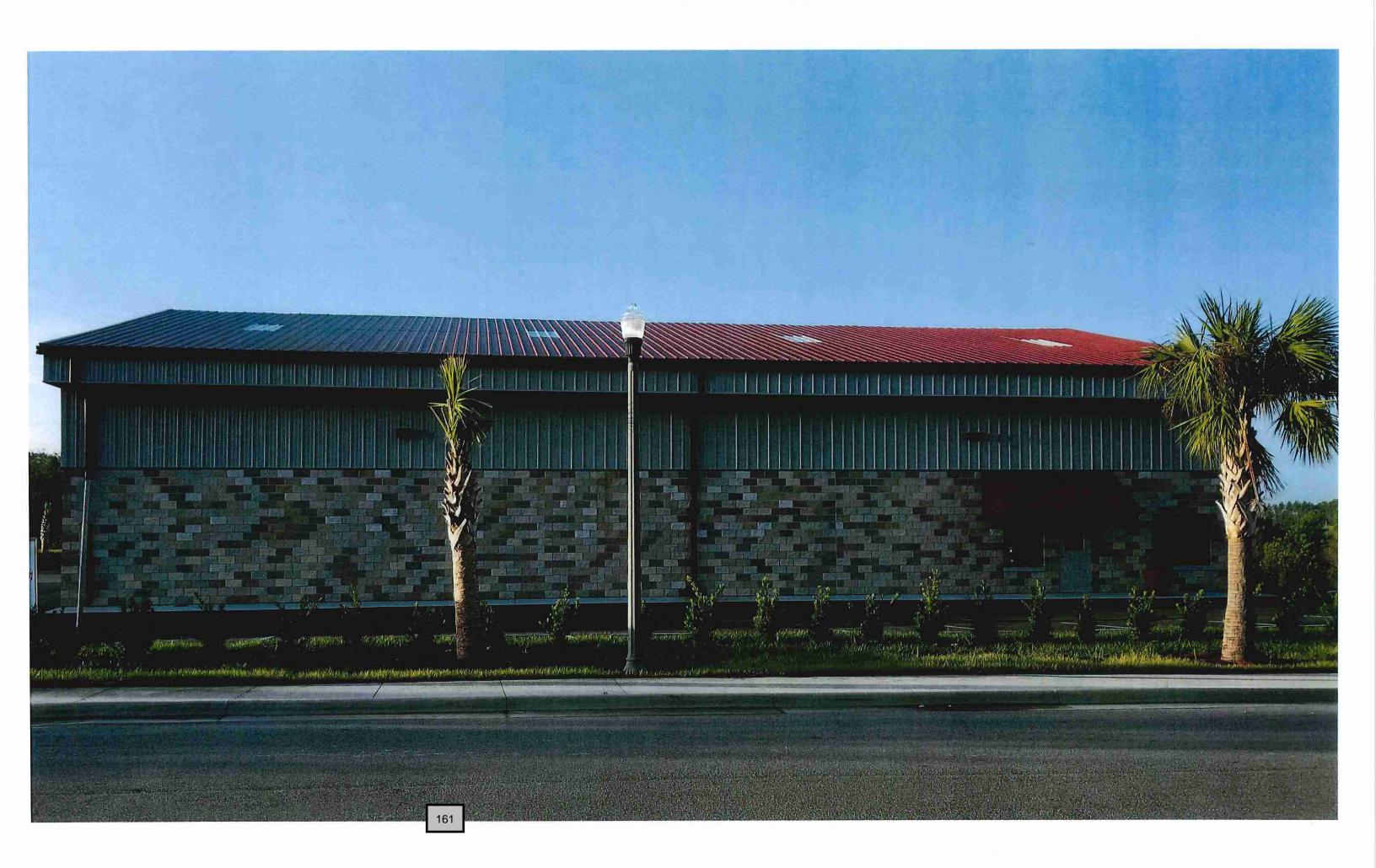




#### PROPERTY DESCRIPTION PARCEL A:



**BOUNDARY SURVEY** 



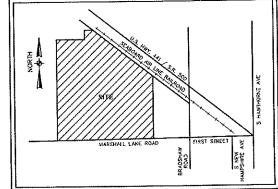
#### LAKE GEM COMMERCE CENTER

LOCATED IN SECTIONS 8 AND 9, TOWNSHIP 21 SOUTH, RANGE 28 EAST, CITY OF APOPKA, ORANGE COUNTY, FLORIDA

#### DESCRIPTION:

BEGIN AT THE INTERSECTION OF THE NORTH RIGHT-OF-WAY LINE OF MARSHALL LAKE ROAD AND THE WEST LINE OF NORTHWEST ONE-QUARTER OF SECTION 9, TOWNSHIP 21 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA AS SHOWN ON THE ORLANDO-ORANGE COUNTY EXPRESSWAY STATE ROAD 429 JOB NUMBER 7532-6460-607 RIGHT-OF-WAY MAP, SHEET ONE OF THREE, THENCE RUN S 89'20'15" W ALONG THE NORTH LINE OF SAID NORTH LINE FOR A DISTANCE OF 329-45 FEET TO A POINT ON THE EAST RIGHT-OF-WAY LINE OF STATE ROAD 429 AS SHOWN ON THE ORLANDO-ORANGE COUNTY EXPRESSMAY STATE ROAD 429 IOB NUMBER 7532-6460-607 RIGHT-OF-WAY MAP SHEET ONE OF THREE; THENCE RUN N 00'10'07" E ALONG SAID STATE ROAD 429 RIGHT-OF-WAY FOR A DISTANCE OF 128-28 FEET; THENCE RUN S 08'10'15 FOR A DISTANCE OF 128-TO THE WEST LINE OF THE SW 1/4 OF ALONG SAID STATE ROAD 429 RIGHT-OF-WAY FOR A DISTANCE OF 1182.88 FEET; THENCE RUN S 89\*59\*10" E FOR A DISTANCE OF 329.99 FEET TO THE WEST LINE OF THE SW 1/4 OF THE SW 1/4 OF SECTION 9, TOWNSHIP 21 SOUTH, RANGE SE 8EAST, ORANGE COUNTY, FLORIDA THENCE RUN N 00\*02\*25" E FOR A DISTANCE OF 99.47 FEET TO THE NORTH LINE OF THE SW 1/4 OF THE NW 1/4 OF SAID SECTION 9, THENCE RUN S 89\*35"56" E FOR A DISTANCE OF 105.04 FEET TO A POINT ON THE SOUTH RIGHT-OF-WAY LINE OF C.S.X. TRANSPORTATION, INC. RAILROAD (FORMERLY KNOWN AS FLORIDA CENTRAL RAILROAD) AS SHOWN N THE ORLANDO-ORANGE COUNTY EXPRESSWAY STATE ROAD 429 NO. 7532-648-0607 RIGHT-OF-WAY LINE FOR A DISTANCE OF 869.58 FEET; THENCE RUN S 54\*19\*18" E ALONG SAID SOUTH RIGHT-OF-WAY LINE FOR A DISTANCE OF 869.58 FEET; THENCE RUN S 00\*53'54" W FOR A DISTANCE OF 774.23 FEET TO THE NORTH RIGHT-OF-WAY LINE OF A FORESAID MARSHALL LAKE ROAD; THENCE RUN N 89\*44'38" W ALONG SAID NORTH RIGHT-OF-WAY LINE OF A FORESAID MARSHALL LAKE ROAD; THENCE RUN N 89\*44'38" W ALONG SAID NORTH RIGHT-OF-WAY LINE FOR A DISTANCE OF 803.38 FEET TO THE POINT OF BEGINNING.

HAVING AN AREA OF1246267.76 SQUARE FEET, 28.610 ACRES



#### GENERAL NOTES:

- - 2. ALL PLATTED UTILITY EASEMENTS SHALL PROVIDE THAT SUCH EASEMENTS SHED THE CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION OF CABL PROVIDED, HOWEVER, NO SUCH CONSTRUCTION, INSTALLATION, MAINTENANCE, AND FILLEWISION SERVICES SHALL INTERFERE WITH THE FACILITIES AND SERVICES OF A GAS, OR OTHER PUBLIC UTILITY, IN THE EVENT A CABLE IELEWISION COMPANY OF A PUBLIC UTILITY, IT SHALL BE SOLELY RESPONSIBLE FOR THE DAMAGES, THIS STORY OF THE PUBLIC UTILITY, SUCH CONSTRUCTION, INSTALLATION, MAINTENANCE, A COMPLY WITH THE NATIONAL ELECTRICAL SAFETY CODE AS ADOPTED BY THE FLUCUMINISM FEATURE OF THE PUBLIC UTILITY, SUCH CONSTRUCTION, INSTALLATION, MAINTENANCE, A COMPLY WITH THE NATIONAL ELECTRICAL SAFETY CODE AS ADOPTED BY THE FLUCUMINISM FEATURE OF THE PLATE OF THE PUBLIC UTILITY SUCH CONSTRUCTION, INSTALLATION, MAINTENANCE, A COMPLY WITH THE NATIONAL ELECTRICAL SAFETY CODE AS ADOPTED BY THE FLUCUMINISM FEATURE OF THE PLATE OF THE PUBLIC UTILITY SUCH CONSTRUCTION, INSTALLATION, MAINTENANCE, AND THE PLATE OF TH

  - 4. THE PROPERTY AS DEPICTED HEREON IS HEREBY SUBJECT TO THE DECLARA' RESTRICTIONS, AS RECORDED IN THE PUBLIC RECORDS OF ORANGE COUNTY, FLO BOOK \_\_\_\_\_\_, PAGE \_\_\_\_\_\_.
  - 5. TRACT "A" GEM COMMERCE COURT SHALL BE OWNED AND MANTAINED BY TO CENTER PROPERTY OWNERS ASSOCIATION.
  - 6. TRACT "B" CONSERVATION AREA SHALL BE OWNED AND MAINTAINED BY THE CENTER PROPERTY OWNERS ASSOCIATION.

  - 11. THE 15:00' DRAINAGE EASEMENT IS DEDICATED TO THE LAKE GEM COMMER OWNERS ASSOCIATION.

1. BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF FIRST STREET AS BEI ASSUMED DATUM,

COMMISSION. -FS177.091(28)

3. ALL DRAINAGE EASEMENTS RESERVED OR NOTED ON THIS PLAT ARE PRIVATE OTHERWISE.

7. TRACT "C" LIFT STATION SHALL BE OWNED AND MAINTAINED BY THE LAKE PROPERTY OWNERS ASSOCIATION.

8. THERE IS A BLANKET EASEMENT FOR THE POTABLE WATER, SEWER, RECLAIM AND ROADWAY OVER TRACT "A" GEM COMMERCE COURT, THAT IS TO BE OWNED MAINTAINED BY THE LAKE GEM COMMERCE CENTER PROPERTY OWNERS ASSOCIA

DEVELOPMENT RIGHTS OF THE JURISDICTIONAL WETLAND AREAS SHALL BE OF APOPKA WITH OWNERSHIP AND MAINTENANCE THE LAKE GEM COMMERCE CENTER ASSOCIATION.

10. THE CONSERVATION EASEMENT IN TRACT 'B' IS STORM WATER MANAGEMENT OWNED AND MAINTAINED BY THE LAKE GEM COMMERCE CENTER PROPERTY OWN CITY OF APOPKA SHALL BE GRANTED AND EASEMENT OVER TRACT 'B'.

NOTICE: THIS PLAT, AS RECORDED IN ITS GRAPHIC FORM IS THE OFFICIAL DEPICTION OF THE SUBSINE SUPPLIED LANDS DESCRIBED MORSH AND MILL HE REPORTS OF SUBSINE SUPPLIED IN AUTHORITY OF THE REPORTS OF SUBSINE SUPPLIED IN AUTHORITY OF THE PLAT, THESE DAY BY ADDITIONAL RESIDENCIANS THAT ARE NOT RECORDED ON THIS DUTY THAT MAY SE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.

ARRREVIATIONS

(C) = CALCULATED
CM = CONCRETE MONUMENT
CLF = CHAIN LINK FENCE
CONC = CONCRETE
C. = CENTERLINE
(D) = DEED

EP = EDGE OF PAVEMENT ELEV = ELEVATION FND = FOUND IR = IRON ROD IP = IRON PIPE

R = IRON ROD

R = IRON ROD

LB = LICENSED BUSINESS

(M) = MEASURED

NO ID = NO IDENTIFICATION

ORB = OFFICIAL RECORD BOOK

(P) = PLAT

BO = PLAT

BO = PLAT BOOK

PC = POINT OF (INVERSECTION)

FG = PAGE

PCP = PERMANENT REFERENCE

PM = POINT ON LINE

PM = PROMANENT REFERENCE

PRW = PERMANENT REFERENCE MONUMENT PRC = POINT OF REVERSE CURVATURE

PT = POINT OF TANGENCY RP = RADIUS POINT

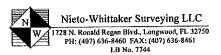
SYMBOLS SHOWN ARE NOT TO SCALE FOUND IRON ROD AND CAP (HUMBER AS INDICATED)

FOUND 4"x4" CONCRETE MONUMENT (STAMPED LB#7744 UNLESS NOTED OTHERWISE) SET 4"x4" CONCRETE MONUMENT

CHANGE IN DIRECTION
OR LOT CORNER
INDICATED BY "TICK" MARK

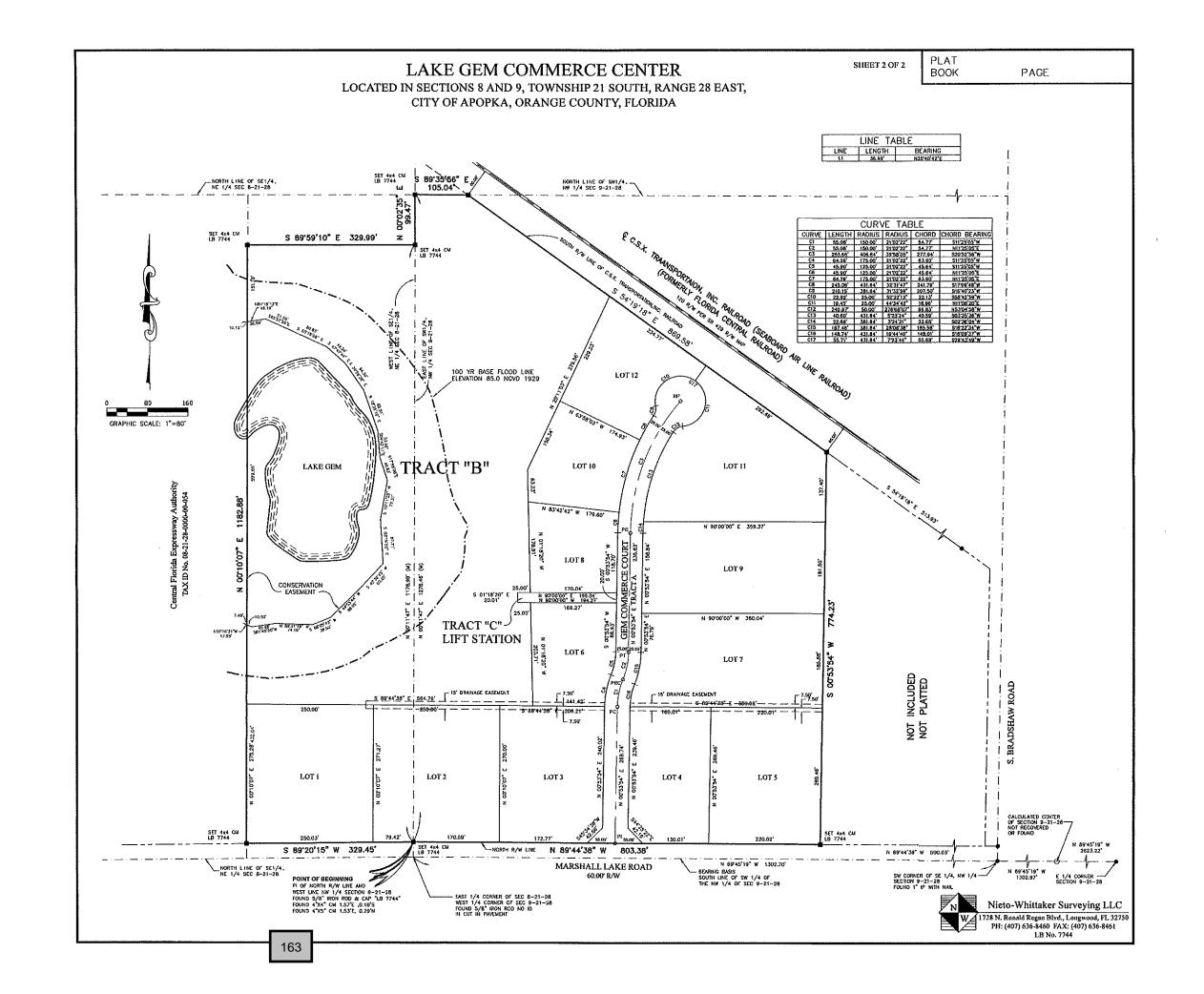
(LB#7744) SET NAIL AND DISK STAMPED "LB 7744"

R/W = RIGHT-OF-WAY REC = RECOVERED SYMBOLS



	PLAT BOOK PAGE
	LAKE GEM COMMERCE CENTER
HAMTHOGSE AVE	KNOW ALL MEN BY THESE PRESENTS. That the limited liability corporation named below, being the owner in fee simple of the lands described in the forgoing caption to this plot, hereby dedicates a blanket easement for the potable water, sewer, reclaimed water, sormwater and roadway over Tract "A", Gem Commerce Court, that is to be owned and maintained by the Loke Gem Commerce Center Property Owners Association, Inc.or the uses and purposes therein expressed by this Plat.  IN WINESS WHEREOF, has caused these presents to be signed and attested to by the officers named below and its corporate seci to be fixed hereto on
UARSHALL LAKE ROAD FIRST STREET W	PROPERTY INDUSTRIAL ENTERPRISES LLC. 370 Cooper Polms Parkway APOPKA, FL. 32703
BRADSHAW ROAD ROAD ROAD BRANDSHAW RANDSHAW	By
LOCATION MAP	PRINTED NAME: PRINTED NAME:
NOT TO SCALE	STATE OF FLORIDA COUNTY OF ORANGE
	THIS IS TO CERTIFY, That on
	IN MINESS WHEREOF, I have hereto set my hand and seal on the above date.
	NOTARY PUBLIC PRINTED NAME: My Commission Expires
ING 8 89"45"19" E, AN  MALL ALSO BE EASEMENTS ILE TELEVISION SERVICES; NO OPERATION OF CABLE AN ELECTRIC, TELEPHONE, DAMAGES THE FACULITES OF SECTION SHALL NOT APPLY ELECTRIC, TELEPHONE, GAS, AND, OPERATION SHALL	QUALIFICATION AND STATEMENT OF SURVEYOR AND MAPPER KNOW ALL MEN BY THESE PRESENTS, That the undersigned, being a licensed and Registered Lond Surveyor, does hereby certify that on FEB 20th, 2015 he completed the survey of the said londs shown in the foregoing plot and said survey was made under his responsible direction and that permanent reference monuments have been placed as required by Chapter 177, Florida Statutes; and that said land is located in the City of Apopka, Florida.
LORIDA PUBLIC SERVICE F UNLESS NOTED	Signed: Date Printed Name: Ralph A. Nieto PSM #6025 Nieto-Whitlaker Surveying, LLC
NION OF COVENANTS AND ORIDA AT OFFICIAL RECORDS	Licensed Business #744  CERTIFICATE OF REVIEWING SURVEYOR
HE LAKE GEM COMMERCE E LAKE GEM COMMERCE	I HEREBY CERTIFY, that the undersigned is a licensed Professional Surveyor and Mapper and is either employed by or under contract with the City of Apopka, Florida and I have reviewed the Plat for conformity to Chapter 177 of the Florida Statures.
GEM COMMERCE CENTER	Signed: Date
MED WATER, STORMWATER D. OPERATED AND ATION, INC,	CERTIFICATE OF APPROVAL BY APOPKA PLANNING COMMISSION
DEDICATED TO THE CITY OF ER PROPERTY OWNERS	THIS IS TO CERTIFY that on the foregoing plat was approved by:  Signed:
T AREA AND SHALL BE NERS ASSOCIATION, INC. THE	printed name: Choirman
CE CENTER PROPERTY	CERTIFICATE OF APPROVAL BY MUNICIPALITY THIS IS TO CERTIFY that on the foregoing plat was approved
	Signed: Attest: City of Apopko City Clerk
	CERTIFICATE OF APPROVAL BY CITY ENGINEER THIS IS TO CERTIFIY that on the foregoing plat was exemined and opproved by:
	City Engineer Date:
	CERTIFICATE OF APPROVAL BY COUNTY COMPTROLLER

..D.C.



Planning Commission March 13, 2018 Page 164

#### Backup material for agenda item:

6. FINAL DEVELOPMENT PLAN – SELF HELP CREDIT UNION - Owned by Self Help Credit Union c/o Randy Chambers, President and located at 667 West Orange Blossom Trail. (Parcel ID #: 09-21-28-5900-04-010)



# CITY OF APOPKA PLANNING COMMISSION

X PUBLIC HEARING

SITE PLAN

SPECIAL REPORTS

X OTHER: Final Development Plan

MEETING OF: M

March 13, 2018

FROM:

**Community Development** 

EXHIBITS: Vicinity Map

Aerial Map

Site Plan

Landscape Plan

Building Renderings

**SUBJECT:** 

FINAL DEVELOPMENT PLAN – SELF HELP CREDIT UNION

**REQUEST:** 

RECOMMEND APPROVAL OF THE FINAL DEVELOPMENT

PLAN FOR SELF HELP CREDIT UNION

**SUMMARY**:

OWNER/APPLICANT: Self Help Credit Union c/o Randy Chambers, President

ENGINEER: Dewberry Engineers, Inc. c/o Christopher J. Allen, P.E.

LOCATION: 667 West Orange Blossom Trail

PARCEL ID #: 09-21-28-5900-04-010

FUTURE LAND USE: Commercial

ZONING: C-2

EXISTING USE: Vacant

PROPOSED USE: Drive-through Bank

TRACT SIZE: 1.37 +/- acres

BUILDING SIZE: 2,320 square feet

FLOOR AREA RATIO: 0.039

**FUNDING SOURCE: N/A** 

**DISTRIBUTION** 

Mayor Kilsheimer
Commissioners
City Administrator
Community Development Director

Finance Director HR Director IT Director Police Chief Public Services Director Recreation Director City Clerk

Fire Chief

#### PLANNING COMMISSION – MARCH 13, 2018 SELF HELP CREDIT UNION - FINAL DEVELOPMENT PLAN PAGE 2

#### **RELATIONSHIP TO ADJACENT PROPERTIES:**

Direction	Future Land Use	Zoning	Present Use
North (City)	Institutional/Public Use	R-O-W/PO/I	Old Dixie Highway/Apopka Elementary School
East (County)	Commercial	R-O-W/R-2	Old Dixie Highway/Residential
South (City)	Commercial	R-O-W/C-1	U.S. 441/Vacant
West (City)	Commercial	C-2 (ZIP)	Vacant

**PROJECT SUMMARY:** The Self Help Credit Union Final Development Plan proposes to construct a building with 2,320 square feet floor area for a bank with two drive-through service stations. The drive-through station is screened from Old Dixie Highway by a 3-foot high garden wall and landscaping. With frontage on two streets, building architecture has the north and south sides of the building have the appearance of a building front wall.

PARKING AND ACCESS: A total of 21 parking spaces are provided of which 2 are reserved as a handicapped parking spaces. Ingress/egress access points for the development will be via full access onto U.S. 441 and Old Dixie Highway.

EXTERIOR ELEVATIONS: The design of the building exterior complies with Section 4.2.1 of the Development Design Guidelines that addresses commercial design standards.

STORMWATER: Stormwater run-off and drainage will be accommodated by an on-site retention pond on the western portion of the project site. The stormwater management system is designed according to standards set forth in the Land Development Code.

CONDITIONS OF APPROAL: A re-plat will be required prior to issuance of a certificate of occupancy.

BUFFER/TREE PROGRAM: A three-foot tall garden wall is provided to screen the drive through area from Old Dixie Highway. The plan also shows a ten-foot landscape buffer along Old Dixie Highway and U.S. 441. The applicant has provided a detailed landscape and irrigation plan for the property. The planting materials and irrigation system design are consistent with the water-efficient landscape standards set forth in Ordinance No. 2069. The applicant has committed to submit an arbor mitigation payment fee of \$3,629 based on the number of tree inches replaced.

Total inches on-site:	900
Total number of specimen trees:	10
Total inches removed	640
Total inches retained:	260
Total inches required:	363
Total inches replaced:	145
Total inches post development:	162

#### **PUBLIC HEARING SCHEDULE:**

March 13, 2018 - Planning Commission (5:30 pm) April 4, 2018 - City Council (1:30 pm)

#### **RECOMMENDATION ACTION:**

The **Development Review Committee** recommends approval of the Self Help Credit Union – Final Development Plan, subject to the findings of this staff report.

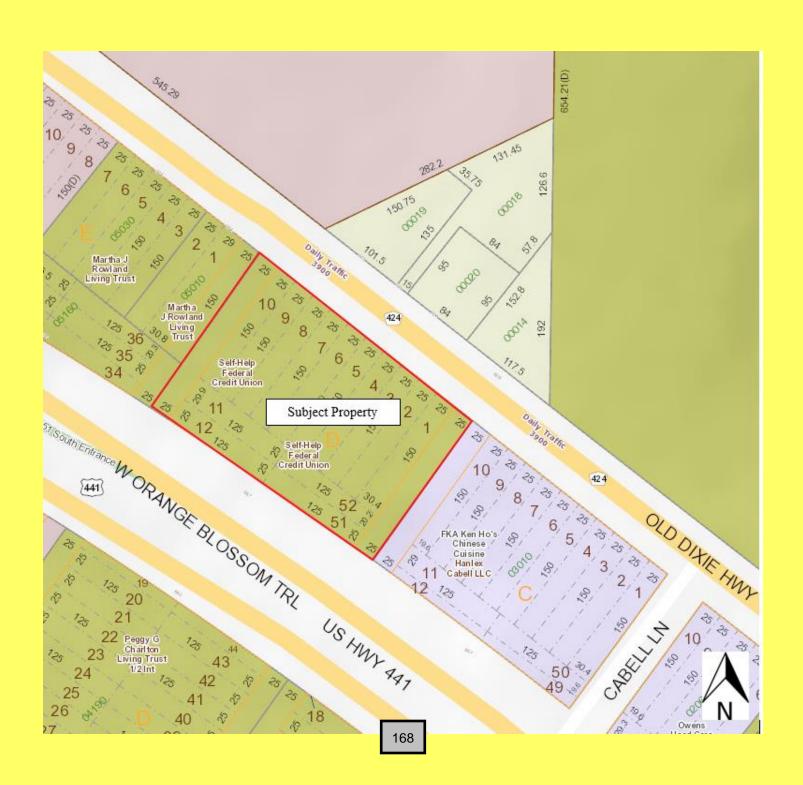
**Planning Commission:** Find the Self Help Credit Union Final Development Plan consistent with the Comprehensive Plan and Land Development Code, and recommend approval of the Self Help Credit Union – Final Development Plan, subject to the findings of this staff report.

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.

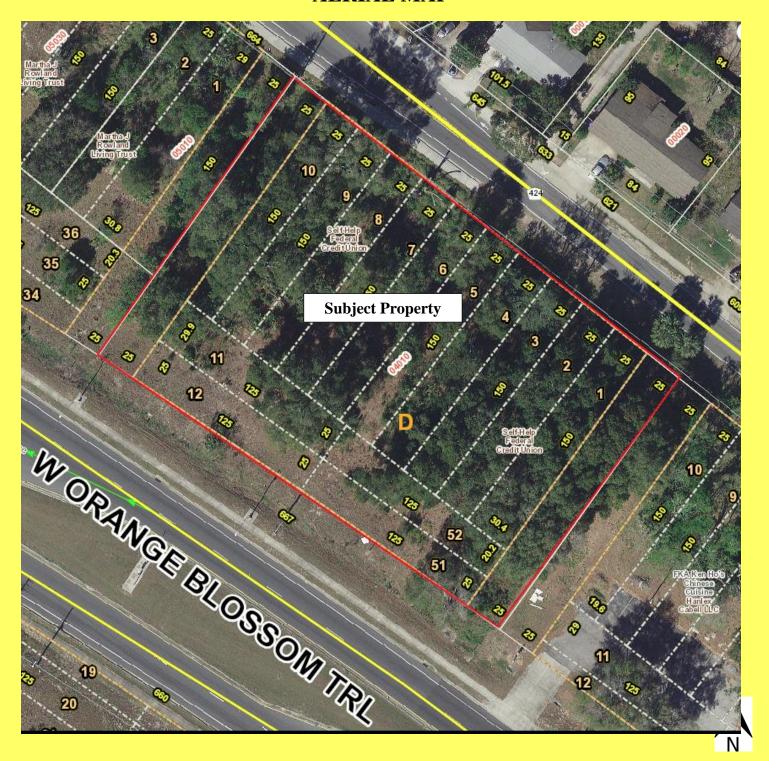
Self Help Credit Union c/o Randy Chambers
Dewberry Engineers, Inc. c/o Christopher J. Allen, P.E.
Self Help Credit Union
1.37 +/- acres

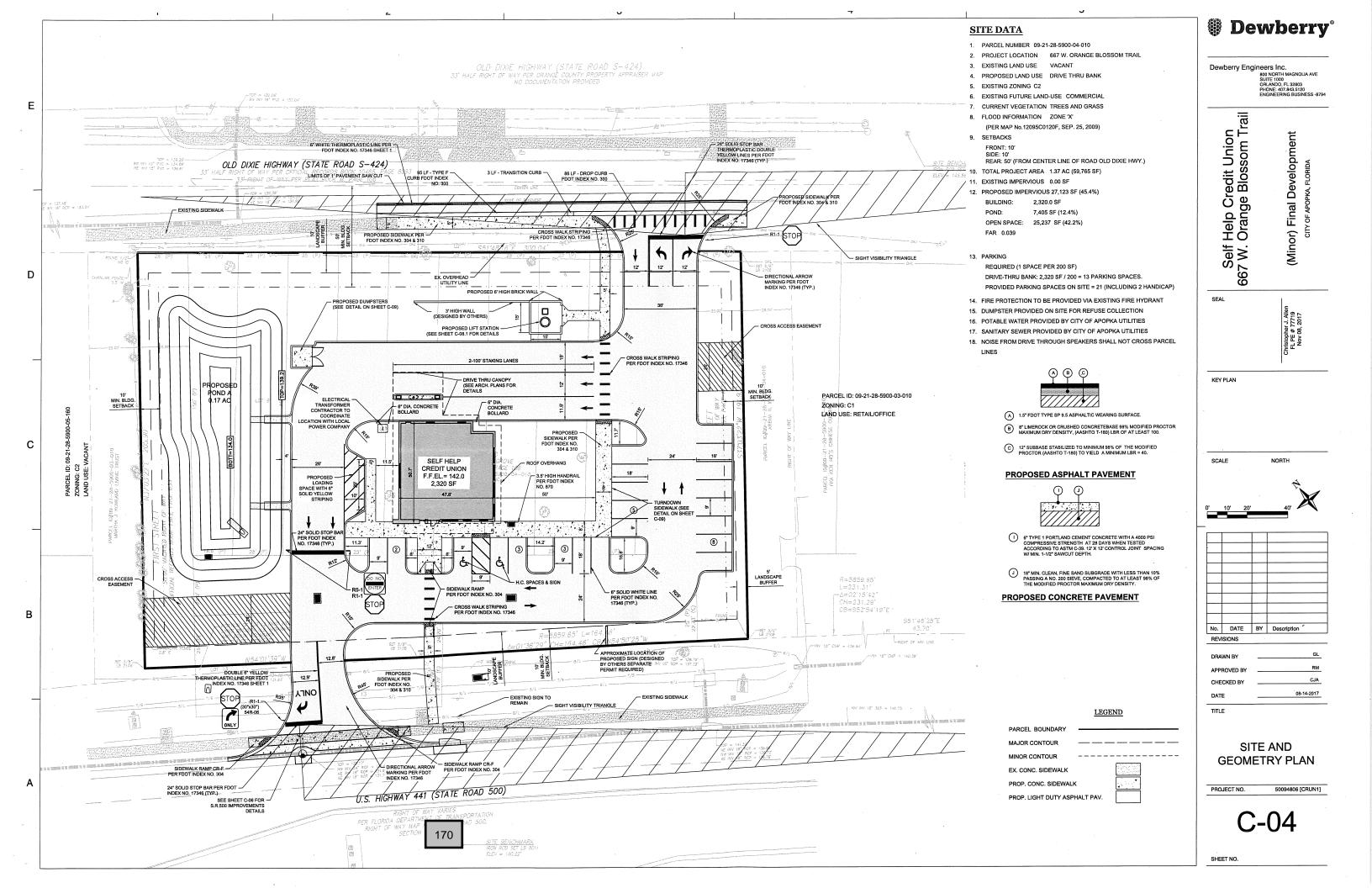
Parcel ID No.: 09-21-28-5900-04-01

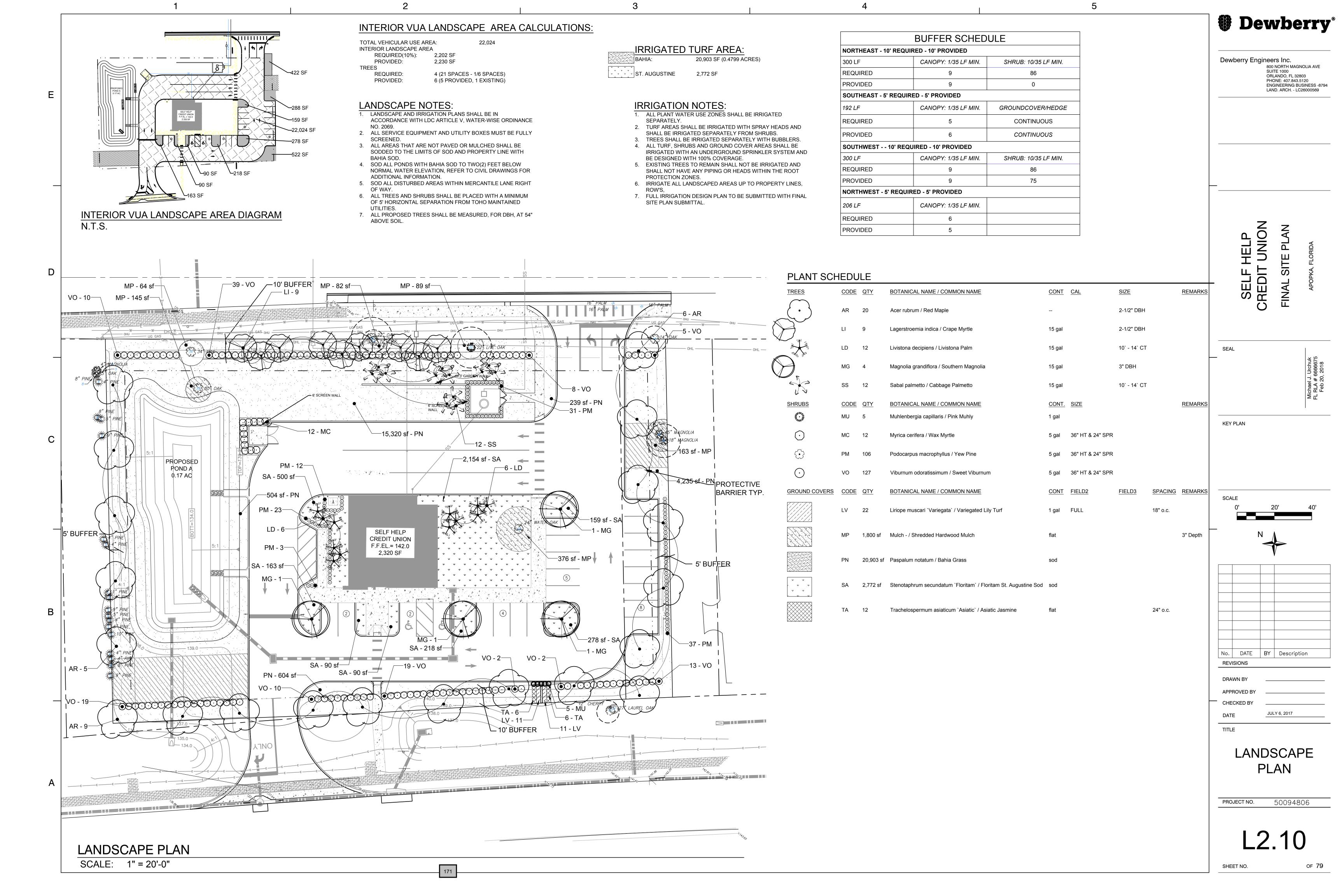
#### **VICINITY MAP**



#### **AERIAL MAP**





















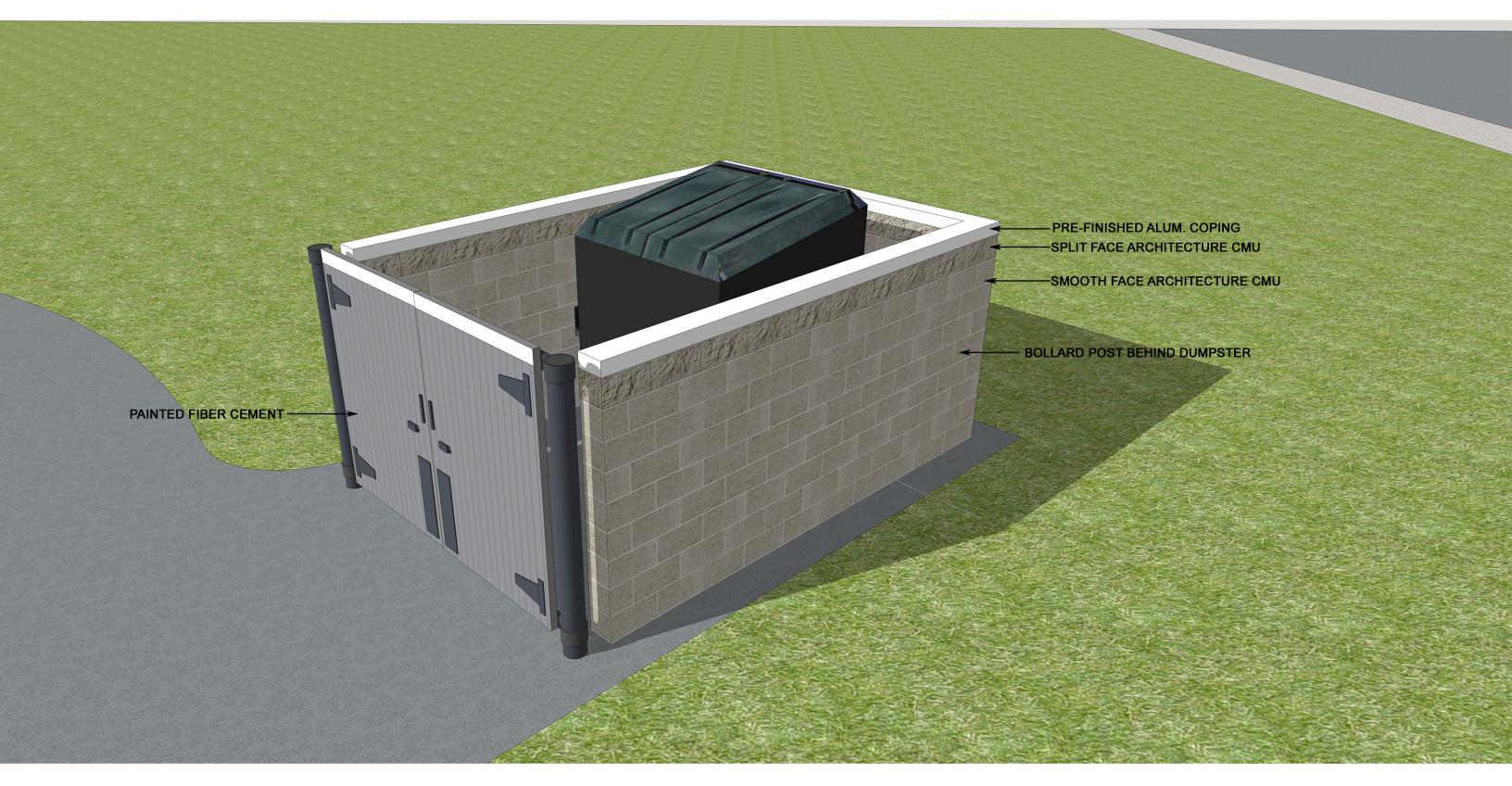




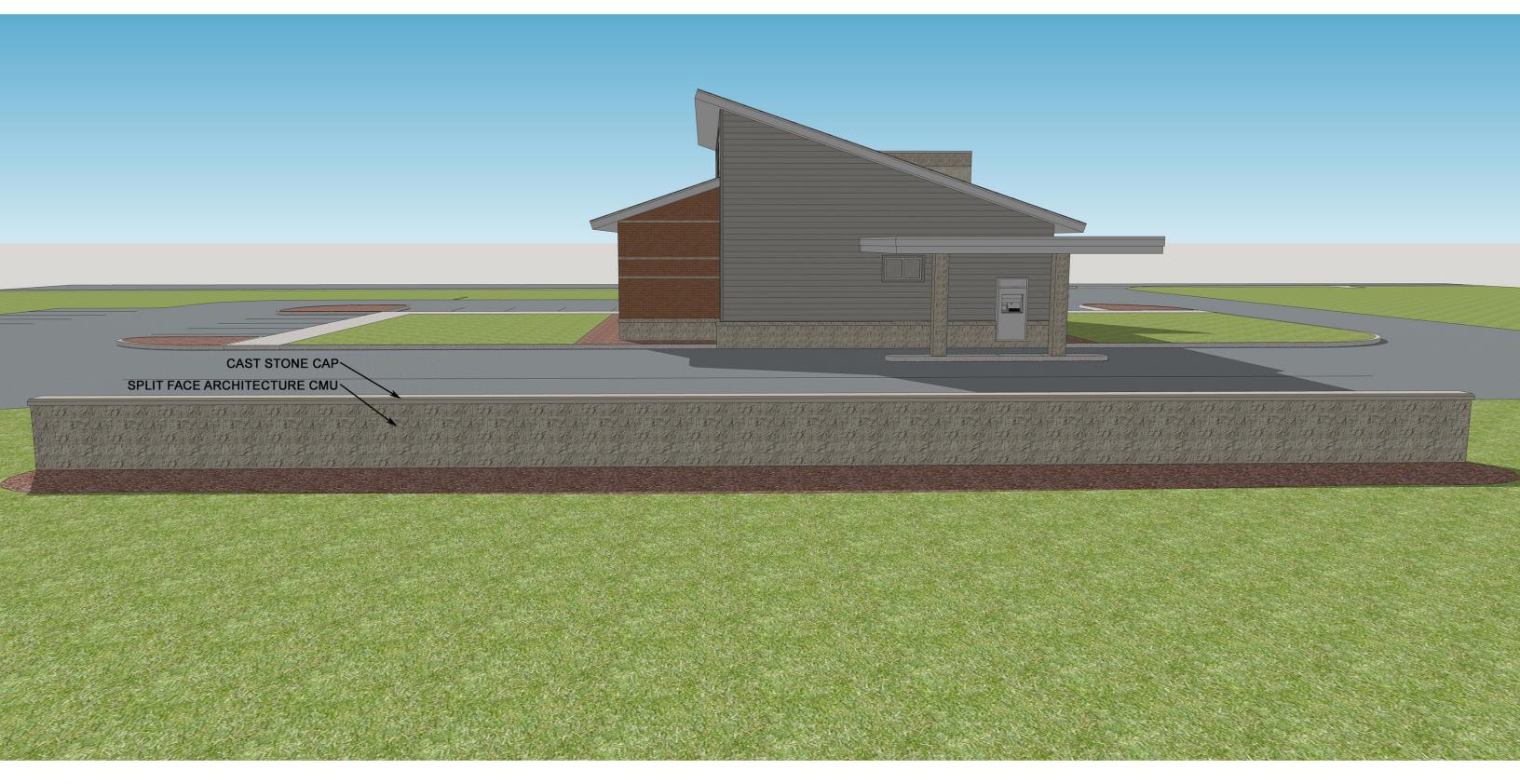














### Drawing Index

#### Civil

C-06

C-00 COVER SHEET
C-01 - C-02 GENERAL NOTES
C-03 EXISTING CONDITIONS
C-04 SITE AND GEOMETERY PLAN

C-05 PAVING, GRADING AND DRAINAGE PLAN

S.R. 500 IMPROVEMENTS PLAN

C-06.1 S.R. 500 IMPROVEMENTS CROSS SECTIONS AND NOTES
C-07 STORMWATER POLLUTION PREVENTION PLAN & DETAILS

C-08 UTILITY PLAN
C-08.1 LIFT STATION

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# Self Help Credit Union Apopka

City of Apopka, Florida (Minor) Final Development Plan August 14, 2017

Client: Dunn & Dalton Architects

# Dewberry Engineers Inc. 800 NORTH MAGNOLIA AVE SUITE 1000 OPLANDO, PL 32800 PHONE: 407.843.5120 ENGINEERING BUSINESS -8794

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Self Help Credit Union 367 W. Orange Blossom Tra (Minor) Final Development

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KEY PLAN

SCALE

NORTH

**Location Map** 

#### Project Information

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Potable Water City of Apopka Public Services

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Lake Apopka Natural Gas District 1320 winter Garden Vineland Roar Winter Garden, FL 34787 Phone: 407.656.2734 Contact: Antonio Gibson



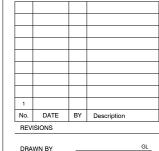
LOTS 1-12, INCLUSIVE, AND LOTS 51 AND 52, AND THE WEST HALF OF THE VACATED STREET ADJOINING THE EAST BOUNDARY AND THE EAST HALF OF THE VACATED STREET ADJOINING THE WEST BOUNDARY, BLOCK D, OF NELLIE GRAY GROVE, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK M, PAGE 106, OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, LESS AND EXCEPT THAT PORTION CONSTITUTING THE RIGHT OF WAY FOR U.S. HIGHWAY 441, A/K/A STATE ROAD NUMBER 500.

Legal Description

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 DRAWN BY
 GL

 APPROVED BY
 RM

 CHECKED BY
 CJA

 DATE
 08-14-2017

COVER SHEET

PROJECT NO. 50094806 [CRUN1]

C-00

HEET NO

- Unless otherwise specified, all construction shall be performed consistent with the most recent publication of the following codes, standards and specifications as well as the latest editions of all other applicable specifications & standards
  - City of Apopka

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- St. Johns River Water Management District (SJRWMD)
- Florida Department Of Environmental Protection (FDEP) Florida Department Of Transportation (FDOT)
- Americans with Disabilities Act (ADA) by U.S. Department Of Justice
- "Manual On Uniform Traffic Control Devices" (MUTCD) published by the U.S. Department of Transportation, Federal Highway Administration
- All construction is to be governed by all applicable federal, state and local laws ordinances, building and safety codes.
- In the event that any standards or specifications as described herein are in conflict with each other, or that shown in the plans, the more stringent criteria will apply. Contractor shall notify the engineer of record immediately and in writing should the more stringent criteria be unclear, for engineer's interpretation of the more stringent criteria to be used.
- These plans were based on the boundary & topographic survey by Dewberry All elevations shown on these drawings refer to national geodetic vertical datum (NAVD 88).
- These plans were based on a report by a Geotechnical and Environmenta Consultants, Inc. (report # 4053G). It is the contractor's responsibility to acquire a copy of the report(s) from the geotechnical engineer, familiarize themselves with the conditions as described in the report(s), and comply with all recommendations made in the report(s) specifically for soil preparation on the site. It is the contractor's responsibility to obtain a copy all supplemental reports for this project from the owner and to follow the supplemental reports' recommendations.
- Geotechnical recommendations or recommendations as provided in supplementa reports by others are not the responsibility of Dewberry Engineers. Inc., who has relied upon the referenced geotechnical report(s) in the preparation of the plans. Any conflict between information contained in the report(s) and these plans shall he reported to the engineer and owner immediately and in writing. Dewherry Engineers, Inc. assumes no responsibility for the correctness, completeness, or accuracy of the report(s). When the plans and/or specifications contain the results of a soils survey, the contractor shall not assume the information is a guarantee of the depth, extent or character of material present. It is the responsibility of the contractor to make a necessary examination of the site and of any material sources indicated on the plans to be informed of the conditions under which construction is to occur.
- The contractor shall obtain from the owner copies of permits for all agencies having jurisdiction, such as governmental, regulatory or local entities. The contractor shall be expected to review and abide by all the terms, conditions, requirements and imitations set forth in all of these permits. A copy of the permits shall be kept on the construction site and made available for review at all times
- The standards and specifications as listed herein, the geotechnical report(s), boundary and topographic survey(s), and required permits are hereby incorporated along with the plans by Dewberry Engineers, Inc. as the complete "Site Civil Construction Documents."
- . If items appearing to be historical or archeological artifacts are discovered at any time during construction within the project limits, immediate notification shall be provided to the owner, the engineer, and the Bureau of Historical Preservation, Division of Historical Resources R.A. Gray Building, 500 S. Bronough St. Tallahassee, Florida 32399-0250

## CONTRACTOR RESPONSIBILITIES

- Contractor shall familiarize himself with the site, including all surface and subsurface conditions, the work required and all other conditions that may effect the successful completion of the job prior to commencement of work.
- The location of existing utility services, facilities, and structural features shown on these plans have been determined from the best information and are provided for the convenience of the contractor. The engineer does not guarantee the accuracy or the completeness of the location information provided. Any inaccuracy or omission in such information shall not relieve the contractor of his responsibility to protect the existing features from damage or unscheduled interruption of service Should a discrepancy arise between these plans and actual field conditions, which would appreciably affect the execution of these plans, the contractor shall stop all construction and notify the engineer immediately.
- 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 for changes in
- The contractor shall be responsible for the maintenance of all landscape buffers retention and detention facilities until the project has been accepted by the owner. All disturbed areas shall be returned to equal or better condition.
- The contractor shall be responsible to the owner and the engineer for the acts and  $% \left( 1\right) =\left( 1\right) \left( 1\right$ 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
- All work and furnished materials shall be in reasonable conformity with the lines. grades, grading sections, cross sections, dimensions, material requirements and testing requirements that are specified in the contract, plans, details or specifications.
- 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 pavements, 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.
- Prior to commencing work, the contractor shall furnish, erect and maintain all barricades, lights, warning signs, and payement markings for hazards and the control of traffic through the construction zone in conformity with the all agencies having jurisdiction standards to effectively prevent accidents at all locations where construction causes an obstruction to the normal flow of traffic or creates a hazard
- in any way to the public. In the event the contractor discovers any errors or omissions in the plans he shall immediately notify the owner or owner's agent.
- The contractor shall comply with all legal load restrictions in the hauling of materials on public roads beyond the limits of the work. A special permit will not relieve the contractor of liability for any damage that may result from the moving of materials

11. The contractor shall be responsible for protecting all existing survey monumentation, such as the preservation of all permanent reference monuments permanent control points, permanent bench marks, property corners, points or markers. In the event any monumentation is disturbed, it shall be restored by a

and equipment.

expense.

12. The owner, owner's representatives and inspectors of applicable government agencies having jurisdiction, shall at all times have access to the work site wherever and whenever it is in preparation or progress. The contractor shall provide proper facilities for such access and inspections.

Florida licensed surveyor and mapper selected by the owner at the contractor's

- 13. 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 or use. Such precautions may include installation of signs, fences, or posting of security guards.
- 14. 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 manufacturer.
- 15. Adequate traffic control, signage, barricades and flagman services shall be furnished and maintained by the contractor at all points where construction equipment engaged in work enters onto or crosses functioning traffic-carrying 16. Those parts of work in place that 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, protecting work completed
- 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.
- The contractor shall protect and keep owner (including their agents and employees) free and harmless from any and all liability, 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 Health and Safety Act of 1970 as amended or any rule or regulation promulgated 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 performance of work or work to be performed under this contract, owner may immediately take whatever action is deemed necessary by owner to remedy the claimed violation. Any and all costs or expenses paid or incurred by owner in taking such action shall be borne by contractor, and contractor agrees to protect, hold harmless and indemnify owner against any and all such costs or expenses.
- 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 site and all other persons who may be affected thereby:
- b. 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 subcontractors; and
- c. 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 construction.
- 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 progress of the work, all reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards, promulgating safety ations and notifying owners and users of adjacent utilities of the existence of hazards and of the safety regulations.
- All damage or loss to any property referred to in herein 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.
- 22. 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 par thereof, or to any materials stored on site, by the action of the elements 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.
- The contractor shall be responsible for meeting all inspection criteria and schedules, and signing for said inspections.
- The contractor shall control and be responsible for their operations and those of their subcontractors and all suppliers, to assure the least inconvenience to the public. The contractor shall maintain free and unobstructed movement of vehicular traffic and shall limit their operations in relation to the safety and convenience of the traveling public. Under all circumstances, safety shall be the most important
- 25. The contractor shall familiarize himself with the policies and guidelines established by all agencies having jurisdiction for the preservation of all public and private property. The contractor shall be responsible for all damage or injury to property of any character, during the execution of the work, resulting from any act, omission, neglect, or misconduct in their manner or method of executing the work, or at anytime due to defective work or materials.
- 26. The contractor shall not excavate, remove, or otherwise disturb any material. structure or part of a structure which is located outside the lines, grades or grading sections established for this project, except where such excavation or removal is provided for in the contract, plans or specifications.
- 27. The contractor should verify the quantities and lengths of materials shown on the plans. Any discrepancy between material callouts and actual shown in plan view is to be brought to the engineer's attention by the contractor prior to bidding. It is the engineer's intention to construct what is shown on the plans.
- Any discrepancy between the dimensions and measurements shown on the plans and the actual field conditions shall immediately be brought to the engineer's

attention. Failure to do so and to continue construction shall make the contractor responsible for all errors and necessary corrections that may subsequently arise.

### EROSION CONTROL

- The contractor shall comply with all federal, state and local laws and all regulations controlling pollution of the environment.
- The contractor shall develop and implement a stormwater pollution prevention plan (SWPPP) according to EPA/FDEP NPDES criteria to minimize erosion and insure proper functioning of storm water management system upon completion of construction. In addition to meeting EPA/FDEP NPDES criteria, the SWPPP shall be submitted to and comply with local agency having jurisdiction's minimum erosion control criteria.
- Contractor shall execute all measures necessary to limit the transportation of sediments outside the limits of the project to the volume and amount as those that exist prior to commencement of construction. This condition must be satisfied until project is fully completed and accepted. Contractor shall provide routine maintenance on temporary erosion control features at his expense. Provision must be made to preserve the integrity and capacity of check weirs, sediment basins. slope drains, grading patterns, etc. Required to meet this provision through out the life of construction. Contractor shall provide synthetic hay bales, silt barriers, murafi filters, temporary grassing, etc., as required to fully comply with the intent of this specification. Contractor shall provide continuous monitoring of erosion and sediment controls taken and shall document all corrective measures. A copy of the approved SWPPP shall be kept on site at all times for review by owner's representative and by NPDES inspectors.
- The owner and/or contractor shall provide a notice of intent in accordance with criteria set forth in the NPDES permit requirements 48 hours prior to beginning construction, clearing, or demolition.
- Provide effective temporary and permanent erosion control following the requirements in EDOT INDEX NO. 104 and 105 of the Florida Department of Transportation Design Standards and Specifications (current edition).
- Inlets and catch basins shall be protected from sedimentation resulting from surface runoff until completion of all construction operation that may cause sediment runoff. Filter fabric shall be placed and maintained under the grate and filter socks placed in front of the throat of curb inlets, during construction
- Turbidity barriers must be installed at all locations where the possibility of transferring sediments and suspended solids into the receiving water body exists due to construction. Turbidity barriers shall remain in place until construction is completed, soils are stabilized and vegetation has been established.

#### DEMOLITION AND CLEARING

- Prior to construction, the contractor shall clearly designate the limits of construction on-site. The contractor shall not perform any work outside the limits of construction
- The contractor shall be extremely cautious when working near trees that are to be saved, whether shown in the plans or designated in the field.
- All practical and necessary effort shall be taken during construction to prevent unnecessary tree removal. Any proposed cut or fill material to be removed or placed within the drip line of
- specimen trees to remain, including trenching for proposed improvements such as utilities, will require the advanced pre-treatment of each impacted tree by a qualified arborist or at the direction of the landscape architect to minimize the ootentially adverse impacts of construction.
- Tree protection barricades or equivalent protective measures will be constructed according to the local jurisdiction's criteria for trees to remain within the limits of construction
- 6. In areas requiring fill material, the contractor shall strip or otherwise remove all vegetation such as brush, heavy sods, heavy growth of grass, decayed vegetation matter, rubbish and any other deleterious material before embankment is placed. Immediately prior to the placing of fill material, the entire area upon which fill is to be placed, shall be scarified in a direction approximately parallel to the axis of fill. The geotechnical engineer shall approve the area prior to the placement of fill

# PAVING, GRADING & DRAINAGE

- The contractor shall perform all work pertaining to drainage including excavation of stormwater management ponds or equivalent facilities prior to the commencement of other work included in these plans.
- The contractor shall stake all improvements using the record plat. The contractor shall verify with the engineer that the plat is correct prior to any construction. If a plat does not exist, contractor is to verify use of the survey for layout with engineer prior to starting work. It is the contractor's responsibility to completely stake and check all improvements to insure correct positioning, both horizontal and vertical, including minimum building setbacks prior to the installation of any improvement Any discrepancy between platted information and the plans shall be reported to the engineer immediately and in writing.
- Prior to initiating any excavation (including but not limited to tunnels, ditches, storm water ponds, canals, artificial lakes) contractor shall install fences and take all other reasonable and prudent steps to insure that access to excavation by unauthorized personnel is prevented
- All drainage structures are to be traffic bearing unless otherwise noted. All precast circular structures shall be constructed with a minimum 5-inch wall thickness.
- All proposed paving surfaces in intersections and adjacent existing sections shall be graded to drain positively in the direction shown by the proposed grades and flow arrows on the plans and to provide a smoothly transitioned driving surface for vehicles with no sharp breaks in grade, and no unusually steep or reverse cross slopes. Approaches to intersections and entrance and exit grades to intersections may require minor local field adjustments should actual conditions vary from the surveyed information the design was based upon in order to accomplish the intent of the plans. In addition, the standard crown will have to be changed in order to drain positively in the area of intersections. It is the contractor's responsibility to accomplish the above and consult the engineer as needed to make any and all required interpretations of the plans or give supplementary instructions should the intent of the plans be unclear.
- Construction of roadways shall meet the minimum standards and specifications of the local agency(s) having jurisdiction and the minimum suggested sections as outlined in the soils report's recommendations, unless otherwise noted.
- The contractor is responsible for removing any excess cuts or supp necessary to grade the site to the proposed elevations as construction documents.
- 8. If limestone bedrock is encountered during excavation of the sinkhole or solution cavity forms during construction, excavation be halted immediately, the owner, engineer, and water management district must

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be notified, and remedial action will be required. The permitee must inspect all permitted surface water management basins monthly for the occurrence of sinkholes and document these inspections on water management district condition compliance form number EN-33. Two copies of the completed forms must be sent to the water management district and the local agency having jurisdiction annually by May 31st. of each year. The permitee must report any sinkhole that develops within the surface water management system. The permitee must notify the water management district and local agency having jurisdiction of any sinkhole development in the surface water management system within 48 hours of its discovery and complete sinkhole repair within 10 days of such discovery using a district approved methodology. After the roadway has been constructed to subgrade, it shall be proof-rolled to

- assure that proper compaction has been attained. The proof-rolling and compaction operations shall be inspected and tested by a Florida licensed geotechnical engineer to assure that the specified compaction is maintained and all deleterious materials have been removed. The contractor shall insure that a minimum soil density of 98% compaction is
- achieved unless otherwise noted for placement of all headwall/endwall footings retaining wall footings, and in general, any footing support described on these plans. It will also be the responsibility of the contractor to insure that sufficient otechnical testing and design has been performed prior to construction
- 11. Blue reflective payement markers shall be placed in the center of the driving lane opposite each fire hydrant.
- 12 contractor elects to use an approved alternate. The pipe lengths must be adjusted. Inlet offsets are to the centerlines shown on F.D.O.T. design standards indexes.
- The contractor is responsible for paving all roadways to drain positively. Intersections shall be transitioned to provide a smooth driving surface while maintaining positive drainage. If an area of poor drainage is observed, the contractor shall notify the engineer prior to paving. All reinforced concrete pipe (R.C.P.) shall be minimum Class III. unless otherwise approved or noted on the plans or specifications.g so that a solution or recommendation for correction may
- 15. All reinforced concrete pine (R.C.P.) shall be minimum Class III. unless otherwise approved or noted on the plans or specifications.
- All stormwater pipe joints shall be wrapped with filter fabric

#### PUBLIC RIGHTS-OF-WAY

- 1. The contractor shall coordinate all work within public rights-of-way with the respective local agency(s) having jurisdiction (city or county) Director of Public Works and the jurisdiction's engineer. In addition, any work within a state road right-of-way must be approved and coordinated with the FDOT through the local maintenance office for each district.
- Prior to performing any work within any public or utility right-of-way, contractor shall obtain authorization and permit from all jurisdictions responsible for such right-of-way.
- Prior to performing any work within any public right-of-way, contractor shall develop and submit a maintenance of traffic plan to the local agency having jurisdiction over said ROW for their approval. This plan must meet the minimum requirements as outlined in the "Manual On Uniform Traffic Control Devices" published by the U.S. Department of Transportation, Federal Highway Administration and the Florida Department Of Transportation Index 600; specifically 601, 602 and 603.

# UTILITIES

- The existing utilities shown are approximate. 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 prior to beginning construction.
- The contractor shall be responsible for locating and verifying size, type, location, and elevation of all existing utilities prior to construction and notifying the involved utility providers to make any necessary arrangements for relocation, disruption of service, or clarification of activity regarding said utility. The contractor shall use extreme caution when crossing an underground utility, whether shown on these plans or field located. The respective utility providers shall relocate utilities that interfere with the proposed construction and the contractor shall cooperate with the utility providers during relocation operations. Any delay or inconvenience caused by the involved utilities shall be incidental to the contract. The contractor shall conform to Florida Statute Chapter 556 and the Sunshine State One-Call of Florida.
- Contractor shall notify all utility owners and the Sunshine Underground Utilities Notification Center at 1-800-432-4770 at least 72 hours prior to start of work Contractor is responsible for continual maintenance of all utility locates. flags marking, et cetera through the entire duration of construction Utility services to the proposed building(s) shall terminate 5 feet outside of the
- building unless otherwise noted. Prior to construction, the contractor shall review building architectural and plumbing plans to verify proper continuation of the proposed utilities for location, alignment and elevation(s) for each service to the building(s). Should utility service laterals shown on the site civil construction plans not correspond with building architectural or plumbing plans the contractor shall notify the engineer immediately
- The power distribution system shall be designed and installed by the power service provider. The contractor shall coordinate with said power service provider to insure proper construction phasing is achieved, and to allow the installation of street crossings, sleeves, conduits, poles, transformers, and other required equipment. It is the owner's responsibility to acquire any necessary easements as a result of the power service provider's design and respective installation locations.
- The telephone, cable TV, data, and/or communication systems shall be designed and installed by their respective service provider. The contractor shall coordinate with said service provider to insure proper construction phasing is achieved, conflict free, and to allow the installation of street crossings, sleeves, conduits poles, and other required equipment. It is the owner's responsibility to acquire any necessary easements as a result of the service providers' designs and respective installation locations.
- It is the contractor's responsibility to properly coordinate the final designs and subsequent installations of all service providers' utilities and their minimum criteria as set forth therein for items such as maintaining the minimum separation distances between the various utilities.
- Unless otherwise noted, the top 24 inches of all utility trenches within roadways in maximum 12" lifts, shall be compacted to 98% of the modified proctor maximum density; all other utility trenches shall be compacted to 95% of the modified proctor maximum density
- 9. The contractor shall notify the applicable utilities construction department for the corresponding local utility provided a minimum of 48 hours prior to starting any 10. Pipe alignment, deflection, and integrity testing shall be performed by the 'lamping'

method and utilizing video inspection. The contractor shall perform internal video inspection for the gravity sewer to check pipe alignment and deflection All fire hydrants and apparatus must comply with FFPC Section 3-5.6 and Section

# 3-7.1 when applicable.

#### POTABLE WATER

- All PVC watermains 2" or less shall be SDR21 (200 psi) unless otherwise noted Water mains shall comply with AWWA standards. All PVC pipe 3 to 12 inches shall be AWWA C900 DR18; all PVC pipe 14 inches and larger shall comply with AWWA C905 DR25. All water mains shall bear the NSF logo and shall be color-coded or marked using blue as a predominant color to differentiate drinking water from other water lines.
- Where ductile iron pipe is required for water mains, it shall conform to ANSI/AWWA A21.51. A minimum thickness for pressure class 350 per ANSI/AWWA shall be supplied. Dip sizes up to 12 inches in diameter shall be pressure Class 350. Dip sizes 14 inches and larger shall be pressure Class 250.
- All water main fittings, valves, restraints, couplings, pipe, and in general, thos materials required for installing the water supply system. shall comply with the minimum material standards, ratings and classifications established by the respective utility provider. All water main fittings shall be DIP for all 3" thru 12" PVC and DIP water mains conforming to the requirements of ANSI/AWWA C153/A21.53 and epoxy coated exterior, unless noted otherwise. These fittings shall incorporate restraining rings, mega-lugs or other approved equivalent mechanical devices.
- Ductile iron pipe and fittings shall have a cement mortar interior lining conforming to the requirements of ANSI/AWWA C104/A21.4.
- Valves for potable and raw water mains shall be ductile iron (D.I.) epoxy coated gate valves or butterfly valves. See specifications for details.
- All polyethylene pressure pipe and fittings 4-inch and larger shall conform to AWWA Standard C906-99 (DR11) Pressure Class 160 and ASTM Standard D3350, D2837 PF 3408
- All polyethylene pipes for service tubing shall conform to AWWA Standard C90 (DR9) Pressure Class 200 and Standard D2737 PE 3408.
- All nine and polyethylene service tubing shall bear the National Sanitation Foundation (NSF) seal of approval for potable water service. 10. PVC pipe less than 2-inches shall conform to ASTM D1785. Threaded pipe and
- fittings shall be Sch. 80 and conform to ASTM D2464. Unthreaded pipe and fittings shall be Sch. 40 with solvent-cemented joints. Cemented joints and fittings shall comply with ASTM D2466 and D2855.
- 2", 21/2" and 3" PVC pipe shall conform to ASTM D2241. Pipe shall be furnished in 20-foot lengths, shall have dimension ratio (DR21) and a water pressure rating
- 12. Pine measurements shall be center to center of fittings or valves.
- Contractor shall provide temporary thrust restraints, bracing, test plugs and/or other devices necessary to successfully complete pressure testing of all pressure piping systems, ancillary to the work.
- Automatic air relase/vacuum air release valves for underground instillation shall conform with 62-555.320(21)(b)FAC & RSWW 8.4.2.
- All buried piping specified for pressure service shall be provided with restrainin devices at all directional changes, unless noted otherwise.
- All fasteners shall be manufactured of non-corrosive materials. Locations and dimensions of existing rights-of-way and easements are based of the best available information. The contractor shall verify all the limits of
- 18. The contractor shall repair or replace with equal materials in kind or as directed by the owner or inspector any items disturbed or damaged by the utility construction or its related activities for items such as but not limited to, paving, stabilized earth driveways, etc.
- Contractor shall paint the hydrants according to fire department requirements

rights-of-way and easements in order to avoid encroachments.

- 20. Where applicable fire hydrants shall be installed within the ROW.
- Proper backflow prevention assemblies shall be provided in accordance with Ru 62-555.360. F.A.C. and AWWA Manual M14. "Recommended Practice for Backflow Prevention And Cross Connection Control" (latest editions) as incorporated in rule 62-555-330 FAC. The method of connection to the existing active main should be chosen to ensure that the pressure does not drop below 20psi otherwise a boil water notice is required to be issued by the utility supplying
- . Contractor shall coordinate with agency having jurisdiction and water service provider to have water samples taken at locations as specified by their minimum standards and as outlined in the Florida Department Of Environmental Protection permit for construction of the water distribution system (if permit is required). Documentation of the minimum testing results such as bacteriological reports with residual CL levels shall be submitted to the engineer within 4 days from the day of sample. It is the contractor's responsibility to review and verify the results as passing prior to submittal to the engineer.
- All water mains shall be hydrostatically tested and disinfected in accordance wi AWWA Standards, latest revisions, Hydrostatic testing for PVC mains shall be 150 psi for minimum of 2 hours and meet AWWA Standard C605/M23. Ductile iron mains shall be tested at 150 psi for 2 hours per AWWA C600. All new mains sha be disinfected per AWWA Standard C651. Bacteriological tests for 2 consecutive days shall be approved prior to placing system into service.
- All water mains shall have an "Early Warning" protection tape installed continuously along the entire length. The protection tape shall be installed during the backfilling 6 to 12 inches below finish grade directly over the pipe and be continuously marked with "Caution - Water Main Buried Below". The tape shall have an embedder metallic detectable strip and be blue in color for potable water
- 25. The contractor shall submit shop drawings on all equipment and materials for approval to the engineer and water service provider prior to procurement

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KEY PLAN

SCALE

No. DATE BY Description REVISIONS

DRAWN BY APPROVED BY CHECKED BY 08-14-2017 DATE

**GENERAL NOTES** 

PROJECT NO. 50094806 [CRUN1]

SHEET NO.

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- All pipe, pipe fittings, pipe joint packing and jointing materials, valves, fire hydrants, and meters installed will confirm to applicable American Water Works Association (AWWA) standards
- All public water system components, excluding fire hydrants, that will be installed and that will come into contact with drinking water will conform to NSF International Standard 61 as adopted in Rule 62-555.335. F.A.C., or other applicable standards, regulations, or requirements referenced in paragraph 62-55.320 (3)(b).
- All pipe and pipe fittings installed will contain no more than 8.0% lead, and any solder or flux used in this project will contain no more than 0.2% lead.
- All pipe and pipe fittings installed will be color-coded or marked in accordance with subparagraph 62-555.320 (21)(b) 3, F.A.C., using blue as a predominant color. (Underground plastic pipe will be solid-wall blue pipe, will have a co-extruded blue external skin, or will be white or black pipe with blue stripes incorporated into, or applied to, the pipe wall; underground metal or concrete pipe will have blue stripes applied to the pipe wall. Pipe striped during manufacturing of the pipe will have continuous stripes that run parallel to the axis of the pipe. that are located at no greater than 90-degree intervals around the pipe, and that will remain intact during and after installation of the pipe. If tape or paint is used to stripe pipe during installation of the pipe, the tape or paint will be applied in a continuous line that runs parallel to the axis of the pipe and that is located along the top of the pipe; for pipe with an internal diameter of 24 inches or greater, tape or paint will be applied in continuous lines along each side of the pipe as well as along the top of the pipe. Aboveground pipe will be painted blue or will be color-coded or marked like underground pipe.)
- All fire hydrants that have unplugged, underground drains will be located at least three feet from any existing or proposed storm sewer, stormwater force main pipeline conveying reclaimed water regulated under Part III of Chapter 62-610. F.A.C., or vacuum-type sanitary sewer; at least six feet from any existing or proposed gravity- or pressure-type sanitary sewer, wastewater force main, pipeline conveying reclaimed water not regulated under Part III of Chanter 62-10. F.A.C.; and at least ten feet from any existing or proposed "on-site sewage treatment and disposal system".
- New or altered chambers, pits, or manholes that contain valves, blow-offs, meters, or other such water distribution systems appurtenances will not be connected directly to any sanitary or storm sewer, and blow-offs or air relief valves installed under this project will not be connected directly to any sanitary or storm
- New or altered water mains will be installed in accordance with applicable AWWA standards or in accordance with manufacturers' recommended procedures.
- A continuous and uniform bedding will be provided in trenches for underground pipe installed; backfill material will be tamped in layers around underground pipe installed and to a sufficient height above the pipe to adequately support and protect the pipe; and unsuitably sized stones (as described in applicable AWWA standards or manufacturer's recommended installation procedures) found in trenches will be removed for a depth of at least six inches below the bottom of underground pipe.
- All water main tees, bends, plugs, and hydrants installed will be provided with restrained joints to prevent movemer
- 10. Water mains that are constructed of asbestos-cement or polyvinyl chloride pipe will be pressure and leakage tested in accordance with AWWA Standard C603 Or C605, respectively, as incorporated into Rule 62-555.330, F.A.C., and all other new or altered water mains included in this project will be pressure and leakage tested in accordance with AWWA Standard C600 as incorporated into Rule 62-555 330 FAC
- Water mains, including fire hydrant leads and including service lines that will be under the control of a public water system and that have an inside diameter of three inches or greater, will be disinfected and bacteriologically evaluated in accordance with Rule 62-555.340. F.A.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 gravity- or pressure-type sanitary sewer, wastewater force main, or pipeline conveying reclaimed water not regulated under Part III of Chapter 62-610. F.A.C. The minimum horizontal separation distance between water mains and gravity-type sanitary sewers shall be reduced to three feet where the bottom of the water main is laid at least six inches above the top of the sewer. However, it is preferable to lay the water main above the other pipeline. New or relocated, underground water mains shall be laid to 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 any existing or proposed vacuum-type sanitary-sewer.
- 13. New or relocated, underground water mains crossing any existing or proposed gravity-or vacuum-type sanitary sewer, shall be laid so the outside of the water main is at least 6 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. 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.

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14. At the utility crossings described 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 such crossings, the pipes shall be arranged so that all water main joints are at least three feet from all joints in vacuum-type sanitary sewers, or pipelines 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 sanitary sewers, wastewater force mains, or pipelines conveying reclaimed water not regulated under Part III of Chapter 62-610, F.A.C.

# SANITARY GRAVITY & FORCE MAINS

- All PVC gravity sanitary sewer shall be SDR35, unless otherwise noted; and all PVC sanitary sewer forcemain 4" thru 12" shall be C900/DR18, unless otherwise
- Leakage tests for the sanitary sewer system shall meet provider's specifications using the low pressure air test method, 5 psi for 5 minutes and shall not exceed 400 feet in length and shall be tested between adjacent manholes and shall include
- All PVC sanitary force mains shall be color-coded or marked using green as a predominant color to differentiate the force main from other utility lines Minimum slope allowed for sanitary sewer pipe is 0.28%.

- 5. PVC pipe and fittings 4-inches through 15-inches shall conform to ASTM D3034,
- 6 PVC pine and fittings 18-inches through 27-inches shall conform to ASTM F679-T1
- PVC pipe and fittings shall be solid green in color
- Material for gravity sewer pipe and fittings shall be as shown for the following 3. depths of excavation
  - 5' to 12' PVC, ASTM 3034/ASTM F679, SDR 35
- Less than 5' or greater than 12': PVC. ASTM 3034. SDR 26
- The contractor shall submit shop drawings on all equipment and materials for approval by the engineer and service provider prior to procurement.
- 10. Pipe measurements on the main "trunk" sewer shall be from center to center of manholes or cleanouts, unless otherwise noted. Pipe measurements for service laterals shall be from the main "trunk" sewer to the
- property line. The depth of the lateral at the property line shall be measured and recorded on the record drawings. 12. For a scheduled interruption of sanitary sewer main flow, the contractor shall
- provide to the agency having jurisdiction and service provider for review a written schedule as to the method and duration of flow interruption.
- 13. During normal sanitary sewer main flow interruption, the contractor shall provide uninterrupted by-pass flow and shall provide all equipment necessary to accomplish the same in the form of, but not limited to, the following: power, pumps, piping, appurtenant valves and fittings and/or septic tanker truck pumping. hauling and disposal services.
- 14. Contractor shall pay for inspection of the gravity sewer line by a TV camera system A VHS tape and report shall be submitted to engineer for review and approval prior to final inspection by service provider's authorized representative.

#### HAZARDOUS MATERIALS

- 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
- which is or becomes defined as a "hazardous waste," "hazardous substance," pollutant or contaminant under any present federal, state or local statute, regulation, rule or ordinance or amendments thereto including, 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.),
- 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 premises are located or any political subdivision thereof or
- d. The presence of which on the premises causes or threatens to cause a nuisance upon the premises or to adjacent properties or poses or threatens to pose a hazard to the health or safety of persons on or about the premises, or
- which contains gasoline, diesel fuel or other petroleum hydrocarbons, or which contains polychlorinated biphenyls (PCBS), asbestos, lead or urea
- formaldehyde foam insulation. Contractor and its subcontractors shall use, handle, transport, and dispose of all hazardous materials (as defined herein) 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
- 3. 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 the 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..
- Contractor and its subcontractors shall, upon completion of performance of all duties under this contract, remove all supplies, materials, and waste containing any hazardous material from the job 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 as outlined herein.
- Contractor agrees to indemnify, defend, protect and hold the owner harmless from and against any claims including, without 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 as described herein.
- Should contractor or its subcontractors discharge, release or dispose of any hazardous material on or about the job site in violation of this paragraph contractor shall immediately inform the owner in writing. In the event of any spill. release or any other reportable occurrence, contractor shall notify the appropriate governmental agency(s) and shall take such action as may be necessary to minimize the deleterious effect of such spill on persons, property or the
- 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 the owner in writing. If contractor or its subcontractors do not comply with the requirements as outlined
- herein, owner may, but is not obligated to, give written notice of violation to contractor. Should contractor or its subcontractors fail to comply with the requirements of the paragraph within twenty-four (24) hours from the time owner issues such written notice of noncompliance or within the time of an abatement period specified by any governmental agency, whichever period is shorter contractor shall be in material default of this contract.
- 9. All areas used for fuel storage shall have the property owner's prior approval and appropriate measures shall be taken to insure protection of groundwater and soil resources.

## PRE-CONSTRUCTION

- Contractor shall attend a mandatory pre-construction meeting with the engineer of record and applicable staff of the local agency having jurisdiction (e.g. city or county) prior to any disturbance of land, clearing or demolition. Contractor must provide written notice of the pre-construction meeting's time, date and location to the owner and engineer of record a minimum of 48 hours prior to.
- 2. If any testing, inspection or approval under this paragraph 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 other related
- The contractor shall provide the engineer 48-hour advance notification for the
  - following construction and observation activities: Sanitary sewer lamping and video inspection
- Connections to existing systems
- Storm drainage lamping
- Inlet top pours (reinforcing steel check)
- Water and force main pressure tests Bacteriological sampling
- Base observation & sounding
- Asphalt placement
- Pre-final observation Final observation

#### RECORD DRAWINGS & CERTIFICATION

- Prior to construction, the contractor will obtain a copy of the minimum requirement for as-built record drawing acceptance for the agency having jurisdiction (such as the city or county) and/or utility service provider, familiarize themselves with these equirements, and produce as-built record drawings that substantially comply with or exceed these requirements, including any required electronic data submittals.
- As-built drawings shall be accurately recorded and certified by a licensed land surveyor registered in the State of Florida and shall meet the minimal technical standards set forth by the Florida Board of Surveyor's and Mappers in Charter 61G17-6, Florida Administrative Code, pursuant to Section 472.027 Florida
- 3 The contractor will be responsible to provide sufficient as-built information to convey that the construction has been completed within acceptable tolerances to the approved design and shall include but is not limited to the following:

#### Sanitary sewer

- Top elevation of each manhole frame and cover
- Invert of each line entering and leaving each manhole/structure
- Length of each run of main between manholes (center to center).
- Actual grade of pipe between manholes.
- Locate all service wyes from downstream manhole with depth at lot line and distance from the main line.
- Locate with measurements from permanent visible objects all fittings/accessories not visible from the surface (minimum two point ties).

#### Storm drainage

- Top elevation of each manhole frame and cover/grate as well as all other structures (headwalls, control structures, etc.).
- Invert of each line entering and leaving each structure, including underdrain pipes
- Inverts of all mitered end sections.
- Actual grade of pipe between the structures.
- Invert elevation and two horizontal ties from permanent visible objects to all storm
- Underdrains

# Water and reuse system and force mains

- Actual lengths of pipe between branches and valves in the run.
- Locate with measurements from permanent visible objects all fittings/accessories not visible from the surface (minimum two point ties).
- List the depths of the lines at all valves, fittings and fire hydrants

# Other improvements

- Building(s), sidewalks, payement, curb & gutter. Submit certified drawings to the engineer two weeks prior to final inspection of the work to be certified
- The engineer strongly recommends that the contractor keep a daily "as-built" set of drawings while the work being done is visible exposed according to the criteria
- The engineer reserves the right to require the contractor to uncover, retest and/or perform any action necessary to ensure that the improvements have been constructed in accordance with the plans and specifications.
- Final "as-built" drawings for potable water shall clearly indicate compliance to minimum separation distances or required pipe upgrades. All water main and force main pipe fittings shall be referenced to at least two visible reference points (swing ties) and the nearest distance to the centerline of road.
- The contractor's geotechnical engineer shall certify all site, utility, and roadway compaction and all underdrain and pavement construction to Bowyer-Singleton & Associates Inc.
- All PVC water mains and PVC force mains shall be installed with a solid copper "locating wire" with sufficient grounding points at maximum 500 feet spacing

# F.D.O.T. NOTES

# TRAFFIC CONTROL NOTES:

- The maintenance of traffic for minor improvements shall be in accordance with the U.S. Department of Transportation Manual on Uniform Traffic control devices current version) and the Florida Department of Transportation Roadway and Traffic Design Standards (current version).
- Advance warning signs shall be installed before construction begins and shall remain throughout construction period. (see typical advance warning signs for
- See Florida Department of Transportation (FDOT) Index 600 series for additional information and typical construction signing within limits of work zone.
- Maintenance of traffic signing locations are approximate and may be varied as deemed necessary by the engineer to avoid any conflicts. minimum signing distances shall be maintained during construction.
- Existing signs that conflict with construction signs shall be removed or covered during construction.
- Conflicting misleading pavement markings shall be removed.
- All existing payement markings outside the limits of construction that have been altered because of construction operations shall be replaced in kind completion of the project 182
- The contractor shall comply with the drop off criteria d accordance with Index 600.
- Existing posted speed limits shall be maintained throughout the projection Cost of driveway maintenance shall be included in the lump sum maintenance of

- traffic pay item.
- The traffic and travel way shall not be altered by the contractor to create a work area until all, labor and material are available for the construction in that area
- The contractor, at his own expense, may prepare an alternate traffic control plan and submit to the engineer and Santa Rosa County for approval prior to mmencement of any construction.
- 12. The Department will review ALL lane closures, detour, and lane shift requests separately from the permit process. FDOT approval is required before commencement of work involving the closure, detour, or lane shift for work along the State highway system. If a lane closure is needed, submit a written request with proposed dates/times/MOT indices or plan. Allow at least 2 weeks in your scheduling for this special review.
- 13. Contractor's liability insurance and 48 hour start construction notification is required before construction begins. no construction or other access to this project via the FDOT right of way is allowed until a permit is issued.

#### R.O.W. STRIPING NOTES:

- 14. All markings are to conform to the most current issue of FDOT standard specifications for road and bridge construction (current version) along with the most current issue of Florida Roadway and Traffic Design Standard Handbooks
- 15. All payement striping and markings are to be thermoplastic with raised payement markers where applicable to meet FDOT Standards and Specifications as
- Arrow spacing to conform with FDOT Index NO. 17346.
- Temporary tape to be installed prior to darkness on day of existing markings removal. No conflicting markings permitted.
- 18. The signing and striping details show on these plans provide general guidelines only. the contractor will follow the current versions of FDOT Roadway and Traffic Design Standards (R.T.D.S.) and the Manual of Uniform Traffic Control Devices (M LL T C D ) for additional details
- A 14 day pavement curing time will be provided prior to application of the
- 20. The physical construction of all signs, pavement markings, delineators, etc., are to be in conformance with FDOT standard specifications as appropriate.
- 21. Existing signs to be relocated and/or removed per FDOT specification 22. Reflective payement markers will be installed, according to the E.D.O.T.R.T.D.S.
- (current version), the following FDOT Index NO. is applicable: 17352.
- 23. Contractor is to provide flagmen, and other traffic control measures necessary to protect and facilitate traffic movement during construction.
- 24. The locations of all signs, striping, and pavement markings are to be delineated by the contractor by staking and applications of a light coat of temporary paint for final approval by the project engineer and Santa Rosa County as appropriate prior to final construction.
- 25. Existing striping designated for removal shall be milled and resurfaced in accordance with EDOT requirements and specifications, section A711-7



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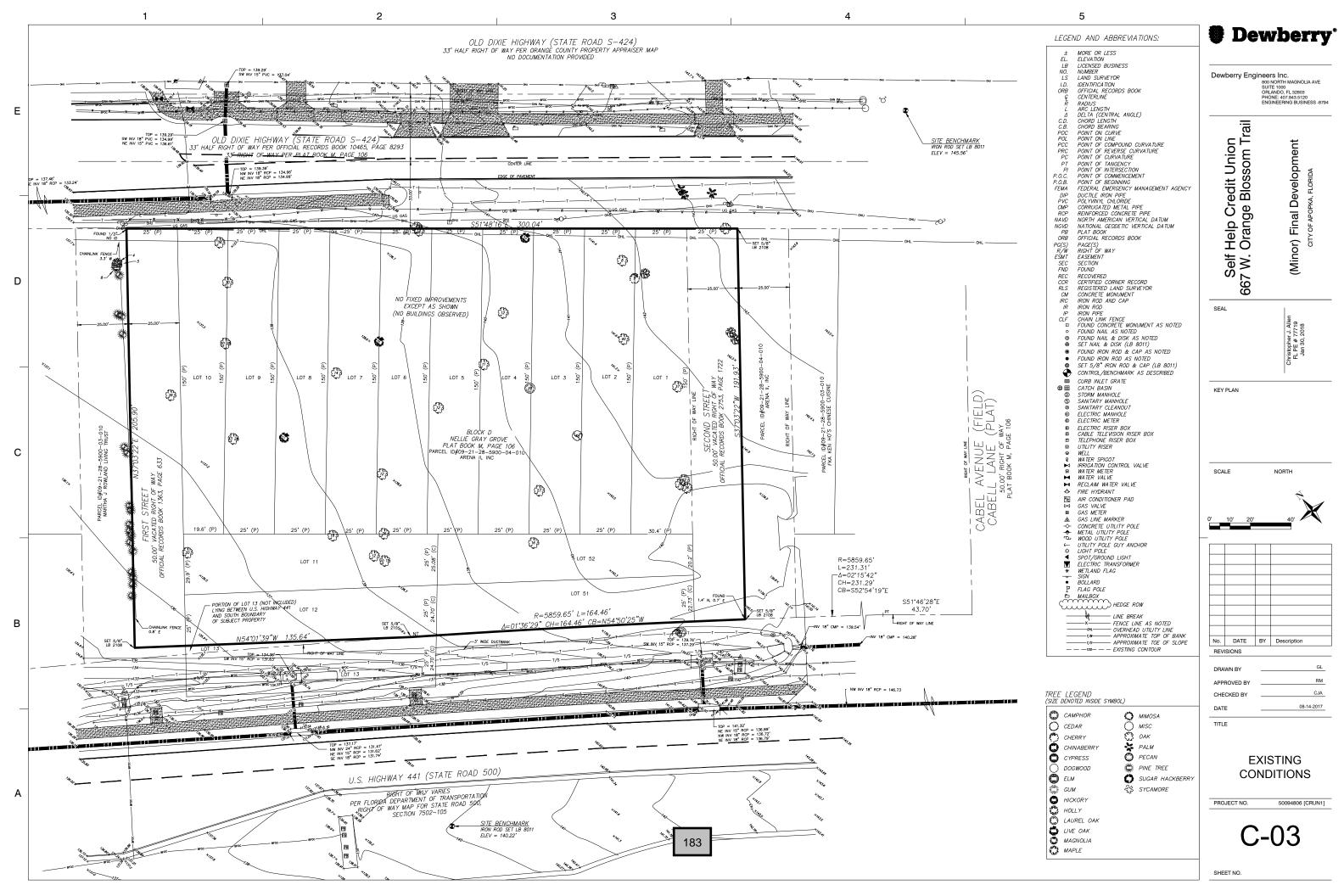
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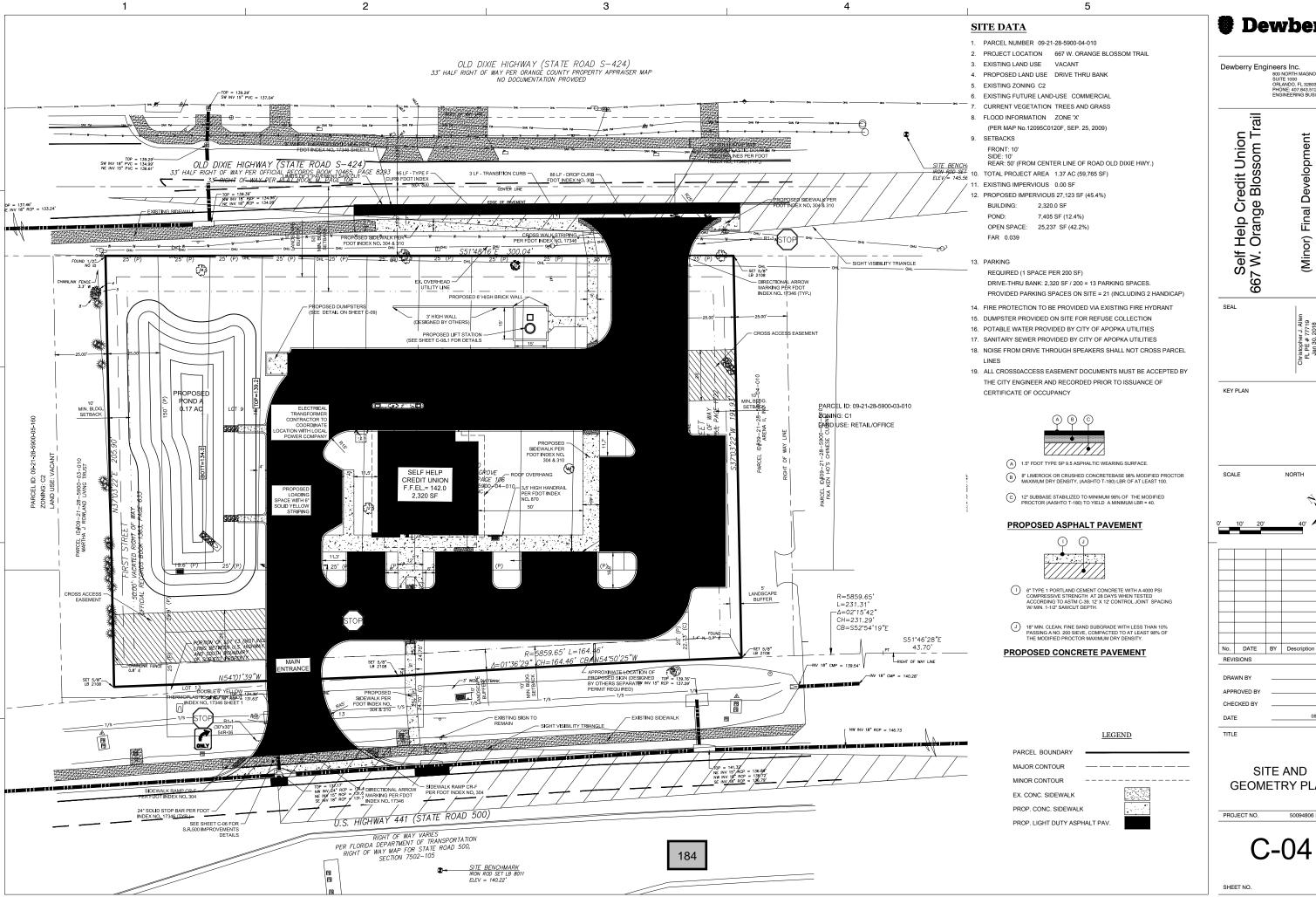
**GENERAL NOTES** 

PROJECT NO. 50094806 [CRUN1]

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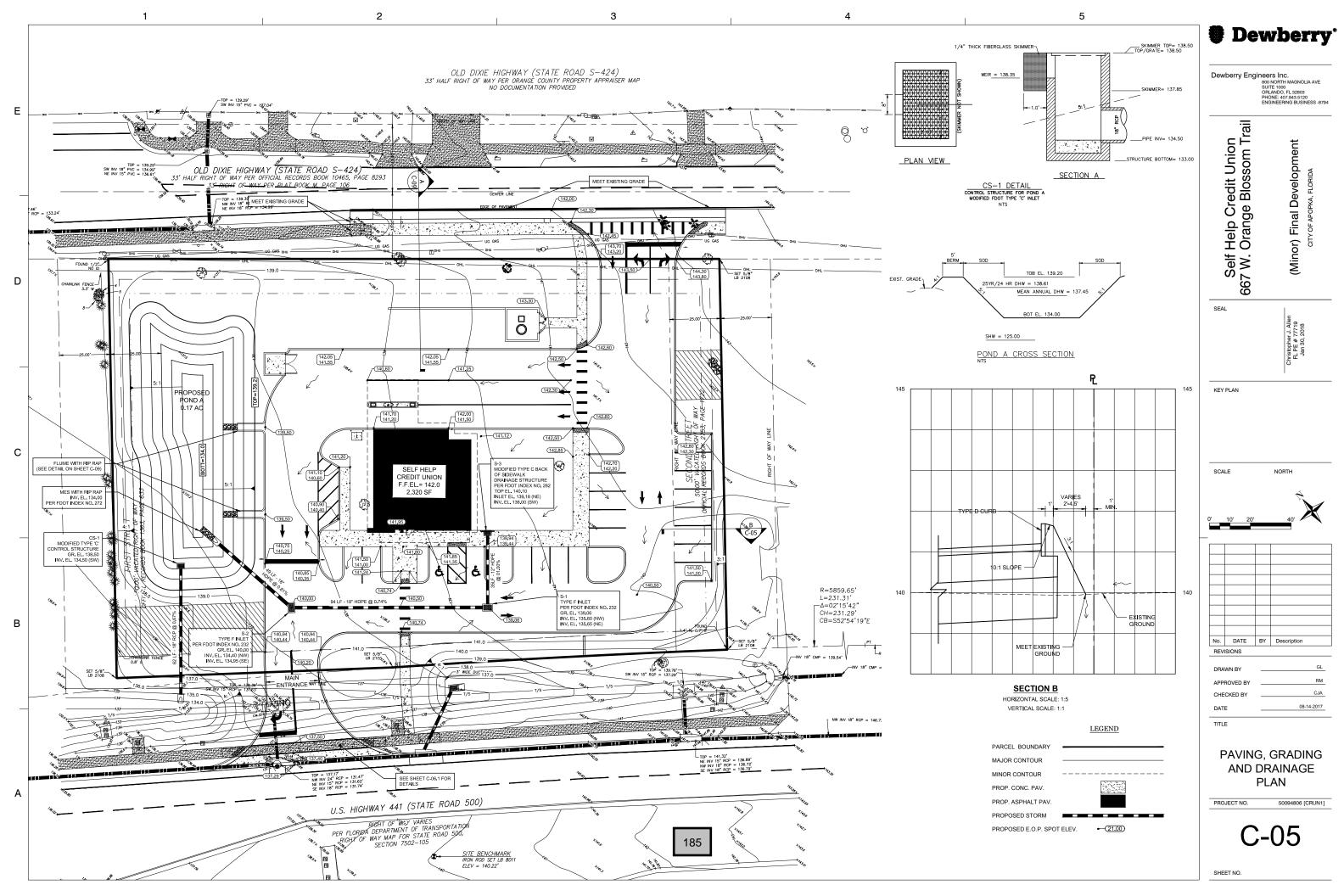
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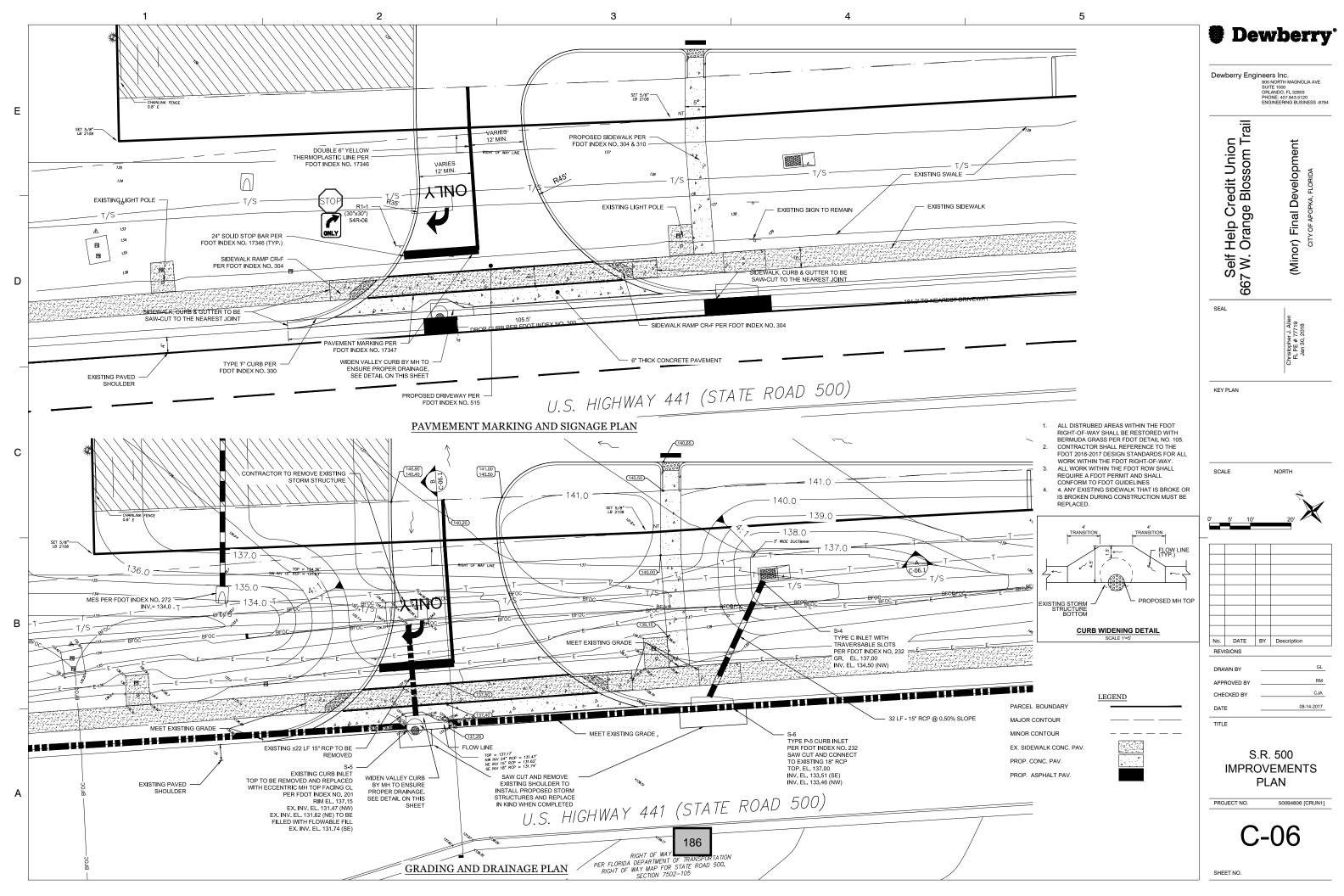
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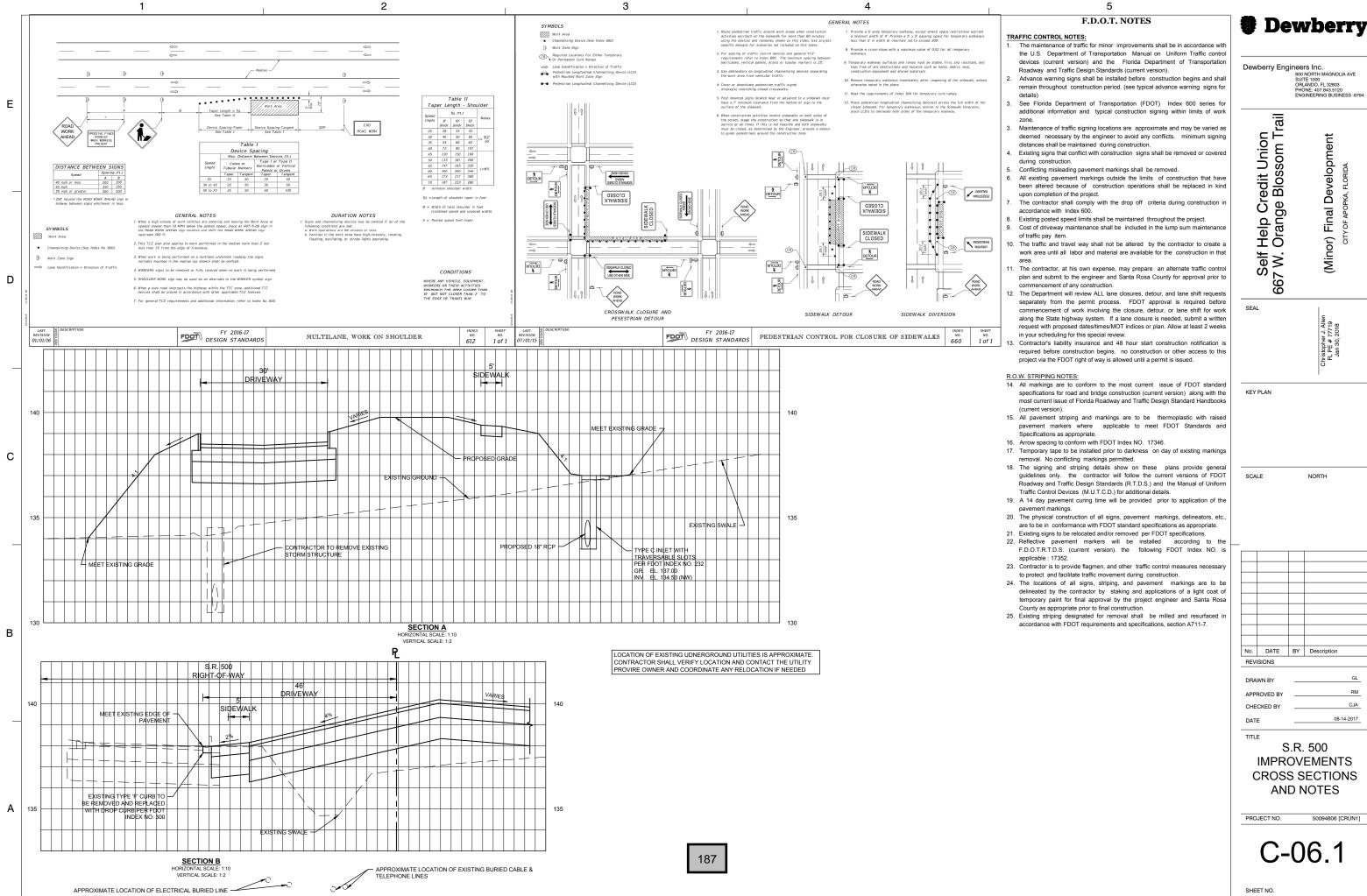
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**GEOMETRY PLAN** 

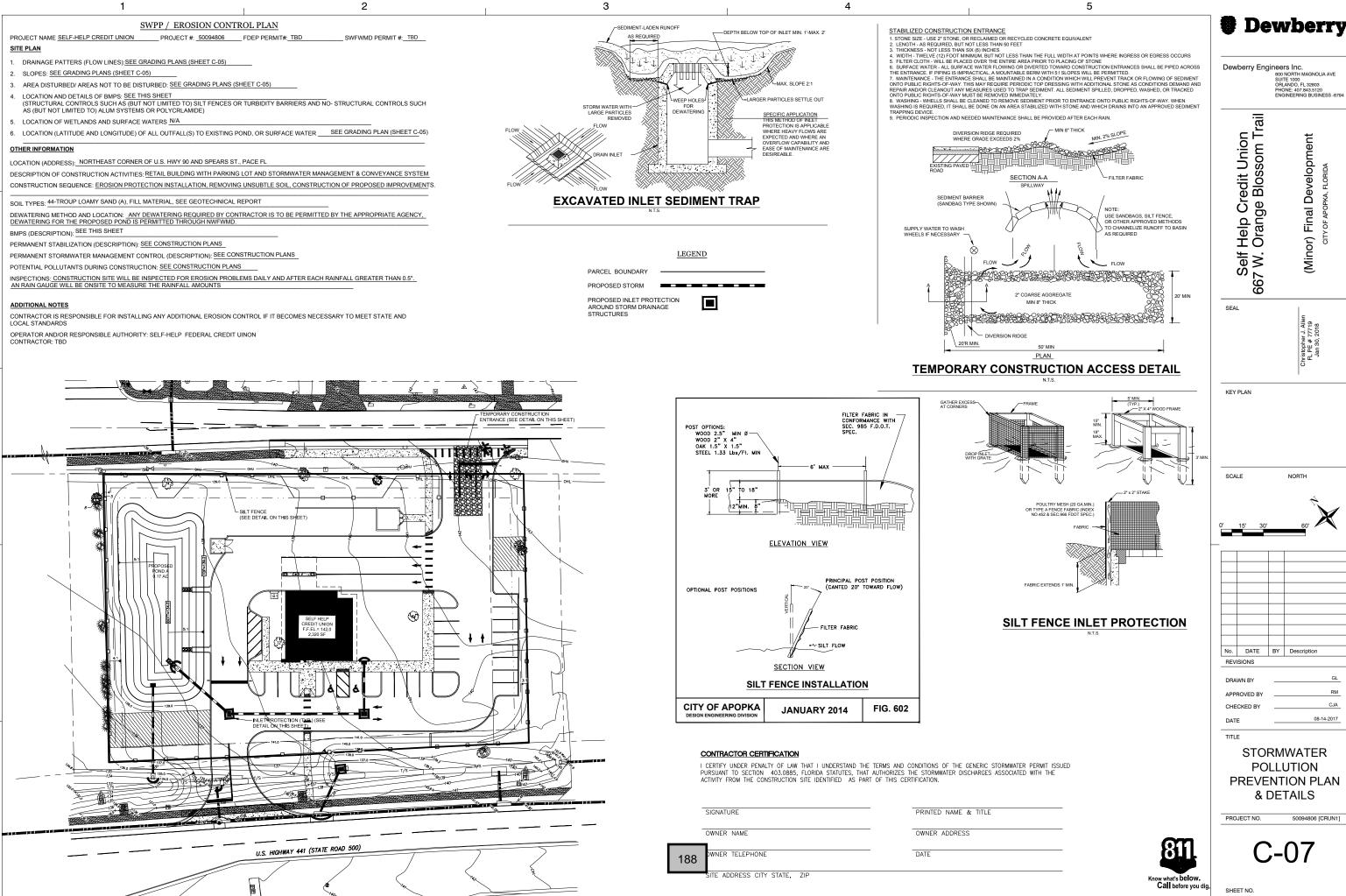
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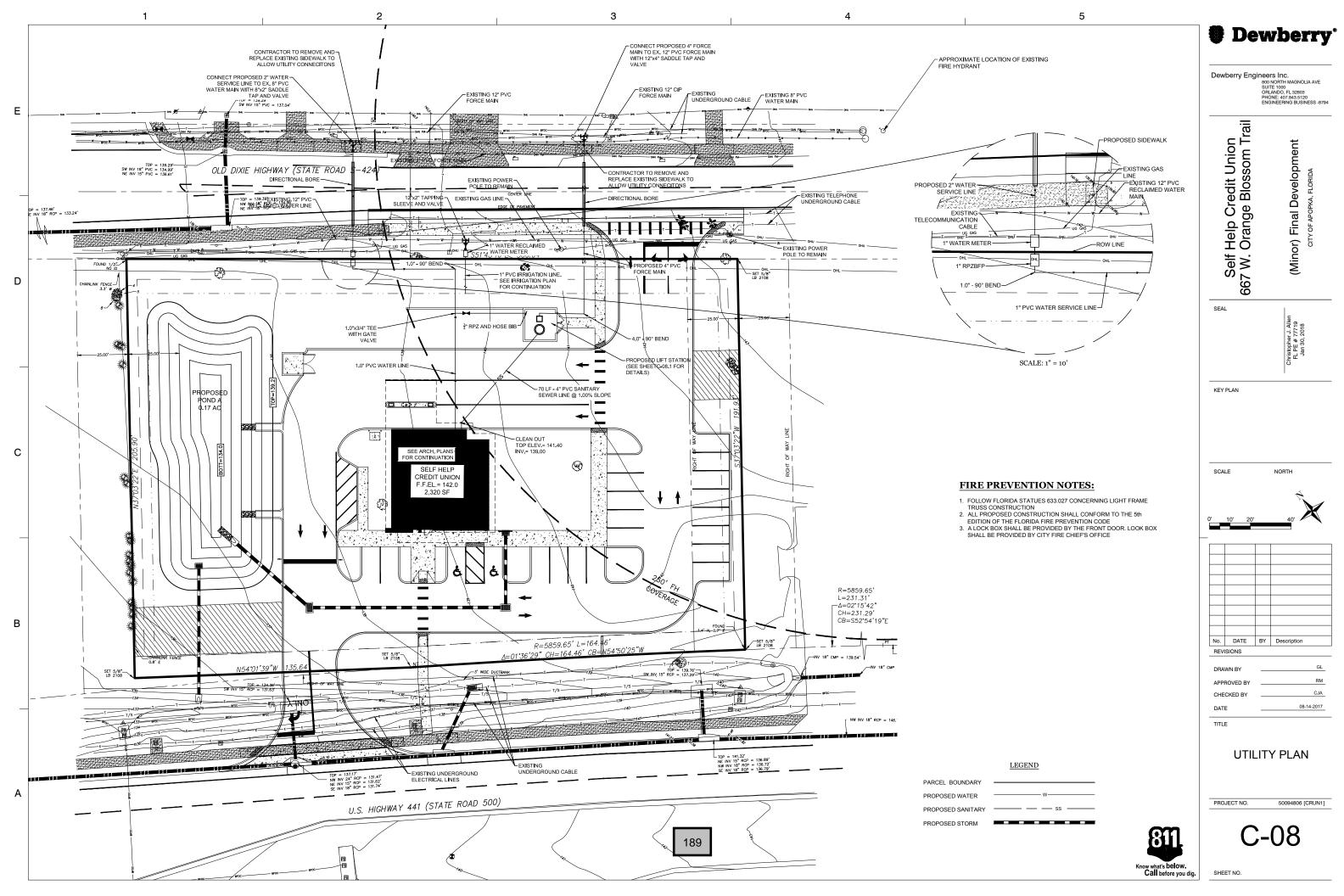
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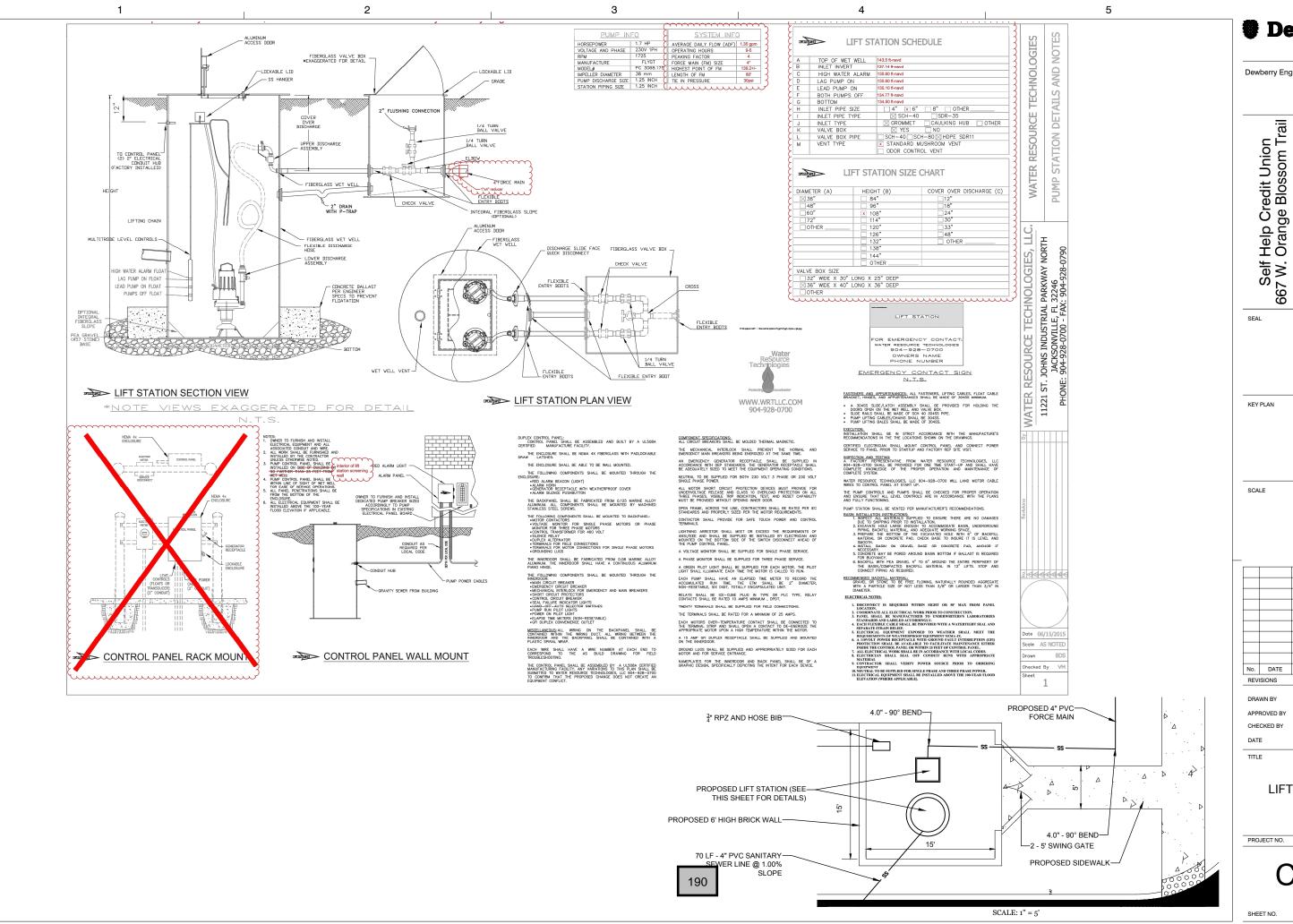
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**POLLUTION** PREVENTION PLAN





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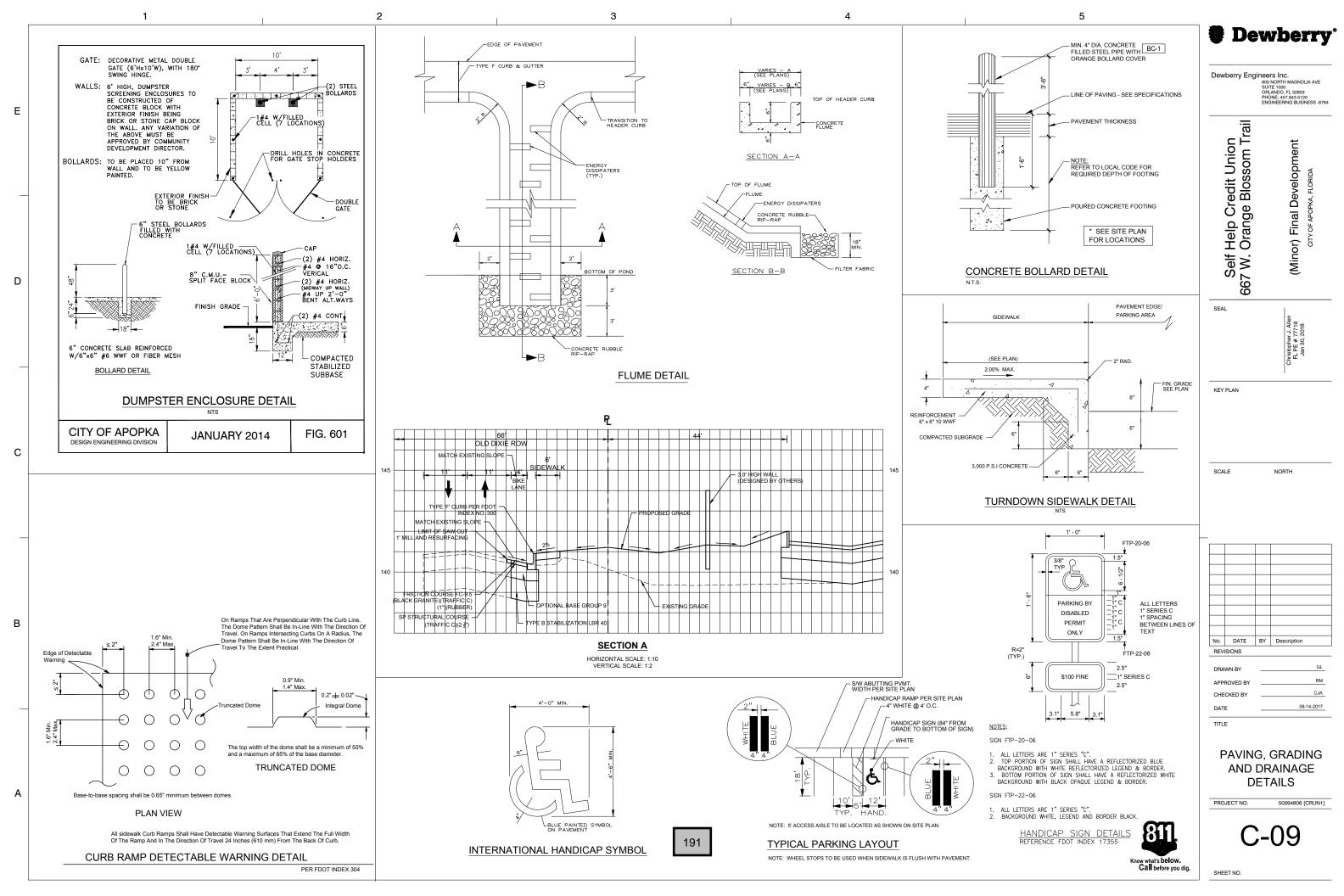
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- 1. Governing standards and specifications on this project are considered the Florida Department of Transportation (FDOT) Design Standards (2013 Edition), FDOT Standard Specifications for Road and Bridge Construction (2013 Edition), and City of Apopka Utilities Design and Construction Standards Manual (2014 Edition).
- 2. All personal property, except mail boxes located within the public right-of-way (not relocated by the property owner), shall be removed by the Contractor as necessary to construct the project in accordance with the Construction Plans. Mail boxes shall be relocated by the Contractor in accordance with FDOT Index No. 532.
- 3. The disposal of excess earthwork materials shall be the responsibility of the Contractor Approval of disposal sites shall be obtained from the City of Apopka prior to disposal.
- 4. All existing trees and stumps within the right-of-way and limit of the project are to be removed as clearing and grubbing unless otherwise directed.
- Seed and mulch all disturbed areas not covered by sod unless otherwise directed.
- 6. All pavement offsets shown are to the proposed centerline of construction, as where radius nsions are to the edge of pavement, unless otherwise noted.
- 7 Turnout locations and widths shown in the Construction Plans are approximate and may be adjusted as necessary or as directed by the Engineer. All turnouts shall be constructed in accordance with FDOT Index No. 515.
- 8 The various permits included in the bid specifications payment are included in the bid price for Section 104. The Contractor shall perform his work in accordance with the requirements of "Prevention, Control, and Abatement of Erosion and Water Pollution", excluding items specified elsewhere. Environmental controls shall be used at locations designated in the plans and/or designated by the Engineer.
- 9. The information shown on these drawings concerning type and location of underground and other utilities are based on available records and surveys, but is not guaranteed to be accurate or all inclusive. The Contractor shall make his own determination as to the type and location of utilities as may be necessary to avoid damage there to, and is responsible for coordinating utility relocation.
- 10. Prior to ordering drainage structures, the Contractor shall determine if drainage utility conflicts exist. Information about possible conflicts shall be submitted to the Engineer as soon as possible after discovery of such for resolution.
- 11. The Contractor shall notify all gas utility companies a minimum of two working days prior to excavation as required by Chapter 77-153 of the Florida Statutes.
- 12 All inlet/manhole pipe joints shall be filled with non-shrink grout covered with an asphaltic mastic coating, and wrapped with a filter fabric material per Section 13.03.03 of the Orange County Road Construction Specifications.
- 13 All curb inlets ditch bottom inlets and manholes shall have traffic bearing frames and covers or grates meeting AASHTO-20 loading requirements.
- 14. Changes of pipe inverts not exceeding plus or minus one foot will not be considered as a basis for additional compensation for the pertinent pipe bid item or for modification of precast structures.
- 15. All benchmarks (irons and monuments) shown in the Construction Plans, or found, shall be preserved. Those shown in proposed payement shall be protected with a cast iron valve box.
- Public land corners within the limits of construction shall be protected. If a corner monument is in danger of being destroyed or disturbed, the Contractor shall notify the Engineer, without delay, by telephone. The Contractor shall provide written follow up confirmation within 48-hours of telephone notification.
- 17. Prior to beginning of any construction, the Contractor shall submit to the Engineer a set of field notes verifying the benchmark elevations and the reference point connections on the plan and profile view sheets, and/or a set of field notes for all additional benchmark and reference point connections proposed to be used in constructing the project with their location, description and elevation, based on North American Vertical Datum (NAVD88), All submittals shall be signed and sealed by a Professional Land Surveyor registered in the
- 18 Within 21 calendar days after notice to proceed the Contractor shall stake the public right-of-way at 50 foot intervals and the right-of-way breaks with corresponding stations shown on the stakes. No invoice for payment for mobilization (Pay Item No. 101-1) will be processed until the right-of-way has been staked to the satisfaction of the Engineer.

  19. Any United States Code (USC) and National Geodetic Survey (NGS) monuments within the
- limits of construction shall be protected. If in danger of damage, the Contractor shall notify the Engineer, and both shall notify:
- State Geodetic Advisor, NOAA 3900 Commonwealth Blvd. - MS105
- Tallahassee, FL Phone (850) 245-2606
- 20. It shall be the responsibility of the Contractor to acquire all necessary right-of-way and maintenance of traffic permits. The City will waive all permits required for construction activities within the limits of public right-of-way owned and maintained by the City of Aponka For construction activity within the limits of public right-of-way maintained by the City but owned by Orange County or the State of Florida, the Contractor shall acquire the required permits from the agencies. It shall be the responsibility of the Contractor to insure that all required permits are obtained and in-hand before beginning any construction.
- 21. The location of all existing utilities, storm drainage systems, and topographic features shown on the plans have been determined from the best available information and are provided for the convenience of the Contractor. The Engineer assumes no responsibility for their inaccuracy. Should a discrepancy arise between these plans and actual field conditions, which would appreciably affect the execution of these plans, the Contractor shall half construction and notify the Engineer immediately.
- 22. The Contractor shall be responsible for notifying the City within 48 hours before any spections. Also, the Contractor shall be responsible for meeting all inspection criteria, schedules and signing said inspections

23. The Contractor shall not excavate, remove or otherwise disturb any material, structure or part of a structure which is located outside the lines, grades or grading section, established for this project, except where such excavations or removal is provided or in the Contract struction Plans or Technical Specifications.

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- 24. All work and all materials furnished shall be in conformity with the lines, grades, grading sections, cross sections, dimensions, material requirements, and testing requirements that are specified in the Contract Construction Plans or Technical Specifications
- 25. All work shall be accomplished in strict accordance with all applicable federal, state and local codes, ordinances and regulations.
- 26. Apparent errors, discrepancies or omissions in the Construction Plans shall be brought to the Engineer's attention before bidding.
- 27 After completion of construction the Contractor shall provide to the City a completed as-built plan one week prior to the final inspection. Before the final acceptance it shall be the Contractor's responsibility to perform a site cleanup for the removal of trash, debris, excess materials, and equipment to present the project site clean and in good order.
- 28. No extra payments shall be allowed for any work required due to misunderstanding of job or site conditions affecting the work as described in the Technical Specifications or shown on the Construction Plans. The Contractor shall not take advantage of any apparent error or omission in the Construction Plans or Technical Specifications and the Engineer shall be permitted to make corrections and interpretation as may be deemed necessary for the fulfillment of the intent of the Contract Documents. By entering the bidding process the bidders acknowledge acceptance of these conditions.
- 29. The Contractor shall submit four (4) sets of detailed shop drawings of all major items proposed for this project to the Engineer prior to ordering any of the equipment or material. Two (2) copies of the shop drawings will be returned to the Contractor. Upon the Contractor's receipt of approved shop drawings from the Engineer, the Contractor may proceed with the work
- 30. The Contractor shall comply with the legal load restrictions in hauling of materials in public roads beyond the limits of construction work. A special permit will not relieve the Contractor of liability for damage which may result from the moving of material and
- 31. During construction, no direct discharge of water to downstream receiving waters will be allowed. The Contractor is responsible for maintaining water quality and route discharge water in such a manner as to adequately remove silt prior to runoff from the site.
- 32. Connection to existing lines to which utility pipe of the Contract must connect, the following work shall be performed:
- A. Expose buried lines to confirm or determine end connection, pipe material and diameter.
- B. Furnishing and installing piping and making proper connections

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redit Union Blossom Trail Development

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KEY PLAN

SCALE

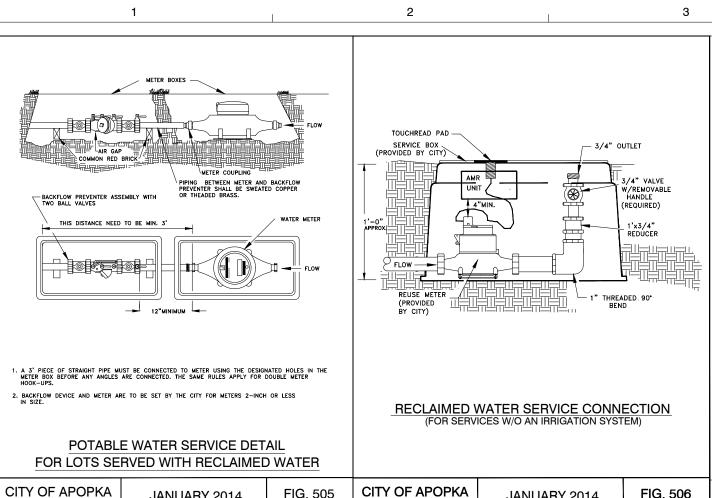
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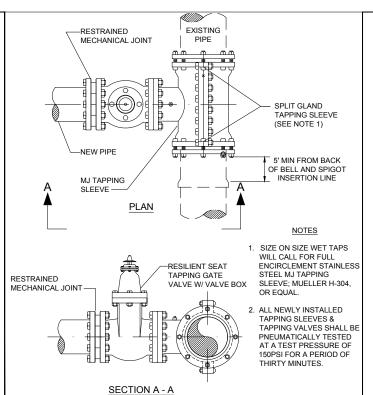
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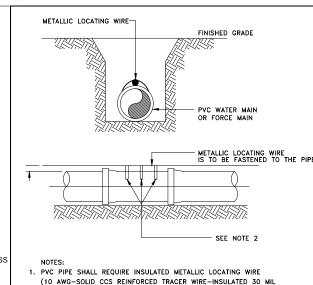
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CITY OF APOPKA **GENERAL NOTES** 

PROJECT NO. 50094806 [CRUN1]







5

- HDPE 30 VOLT MFG. BY COPPERHEAD INDUSTRIES, LLC OR EQUAL) CAPABLE OF DETECTION BY A CABLE LOCATOR.
- 2. SHALL BE BURIED DIRECTLY ABOVE THE CENTERLINE OF THE PIPE AND ATTACHED WITH DUCT TAPE OR NYLON STRAPS AT 3 LOCATIONS PER JOINT. LOCATING WIRE SHALL TERMINATE AT THE TEST STATION BOX AS SHOWN IN FIG. 109.
- 3. BE CAPABLE OF EXTENDING 12" ABOVE TOP OF TEST STATION BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION.
- 4. SPLICES SHOULD BE MADE USING STANDARDS AND PRODUCTS DESIGNED FOR DIRECT BURIAL CONDUCTORS.
- 5. WIRE INSULATION SHALL BE COLOR CODED FOR THE TYPE OF PIPE BEING INSTALLED.

# PVC PIPE LOCATING WIRE DETAIL

CITY OF APOPKA

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FIG. 505 JANUARY 2014

JANUARY 2014

FIG. 506

CITY OF APOPKA DESIGN ENGINEERING DIVISION

JANUARY 2014

WATER AND RECLAIMED WATER MAINS

WET TAP TIE-IN DETAIL

FIG. 406

CITY OF APOPKA DESIGN ENGINEERING DIVISION

JANUARY 2014

FIG. 118

SCALE

KEY PLAN

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Final Development

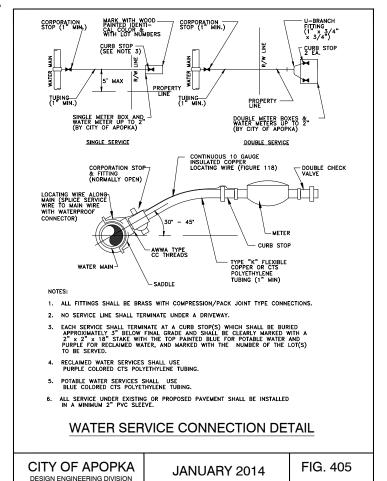
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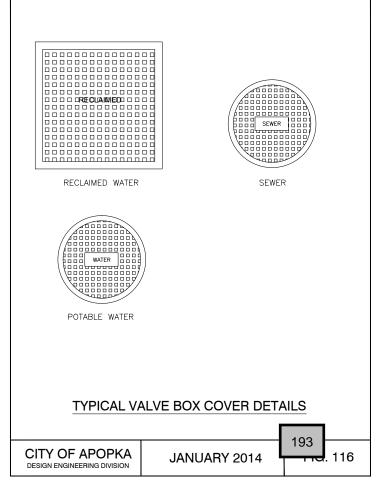
Dewberry Engineers Inc.

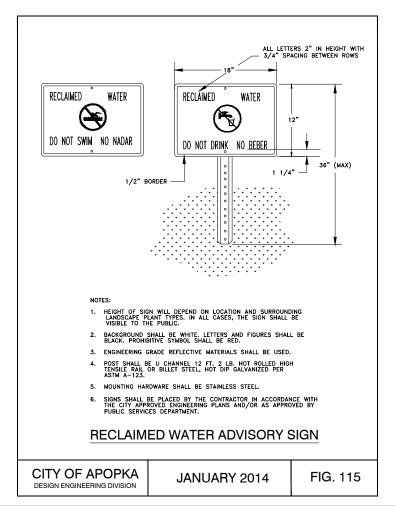
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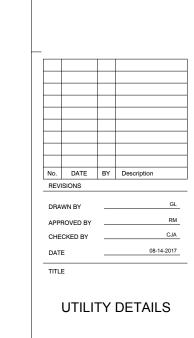
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PROJECT NO 50094806 [CRUN1]

MINIMUM	LENGTH	(FT)	TO	BE	RESTRAINED	ON	EACH	SIDE	OF	FITTING(S).	*

	1										
					PI	PE SI	ZE				
	6"	8"	10"	12"	16"	18"	20"	24"	30"	36"	48"
90° BEND	33	43	51	60							
45° BEND	14	18	22	25							
22-1/2° BEND	7	9	11	12							
11-1/4° BEND	4	5	6	6							
TEE**	1	7	24	44							
REDUCER (ONE SIZE SMALLER)		41	39	40							
DEAD END	74	96	115	136							

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

#### NOTES:

С

В

- FITTINGS 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 EQUAL TO OR GREATER THAN LENGTH SHOWN IN
- WHERE TWO OR MORE FITTINGS ARE TOGETHER, USE FITTING WHICH YIELDS GREATEST LENGTH OF RESTRAINED PIPE.
- IN LINE VALVES 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 ASSUMPTIONS:

TYPE OF PIPE: PVC WORKING PRESSURE: 150 P.S.I.\*\* SOIL DESIGNATION:  $\frac{150}{3}$  P.S.I. WM OR RWM = 150 P.S.I. LAYING CONDITIONS: 3

- 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)

CITY OF APOPKA LANULADV CO4.4 EIC 10E

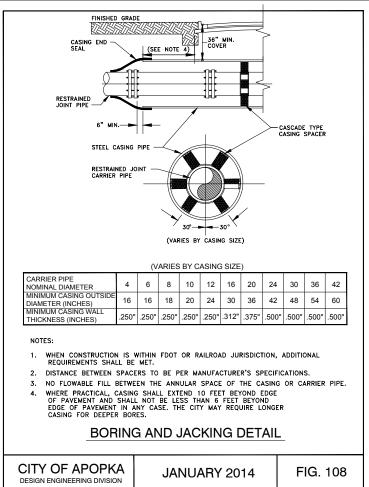
DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 105

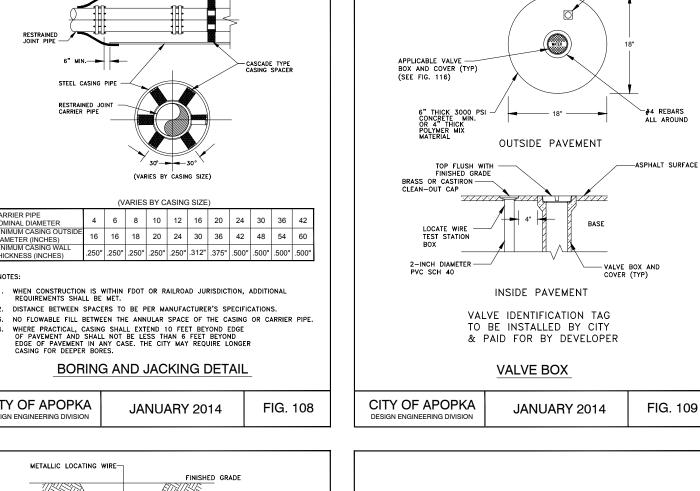
	MINIMUM PRESSURE RATING								
	DI FI	TTINGS	PIPE MATERIAL*			GATE VALVE**		FORCEMAIN*	
PSI	<u>≤</u> 24"	>24"	PVC	DI	HDPE	<u>≤</u> 12"	>12"	PVC	HDPE
100								•	•
150			•		•		•		
200						•			
250		•		•					
350									

- \* PVC SHALL HAVE A MAXIMUM DIMENSION RATIO (DR) OF 18 AND HDPE SHALL BE MAX DR11. FORCEMAIN: PVC SHALL BE MAX DR18 UNLESS DESIGN REQUIRES OTHERWISE AND UNDER SUBJECT OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF T HDPE SHALL BE MAX DR17.
- \*\* BUTTERFLY VALVES SHALL BE CLASS 150B

# PIPE AND APPURTENANCES PRESSURE RATING

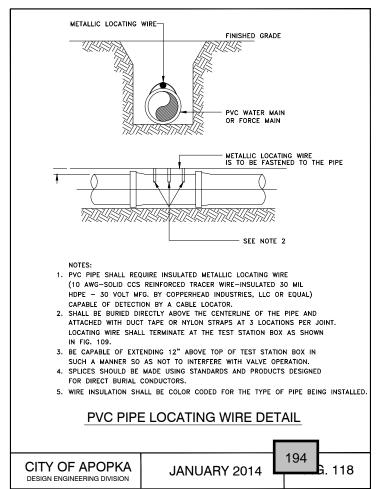
CITY OF APOPKA JAUARY 2014 FIG. 110

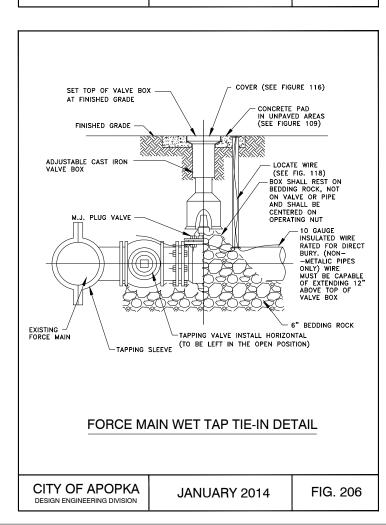




18" DIAMETER ROUND
CONCRETE OR POLYMER PAD
TYPICAL EACH VALVE BOX

-TEST STATION BOX







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(Minor)

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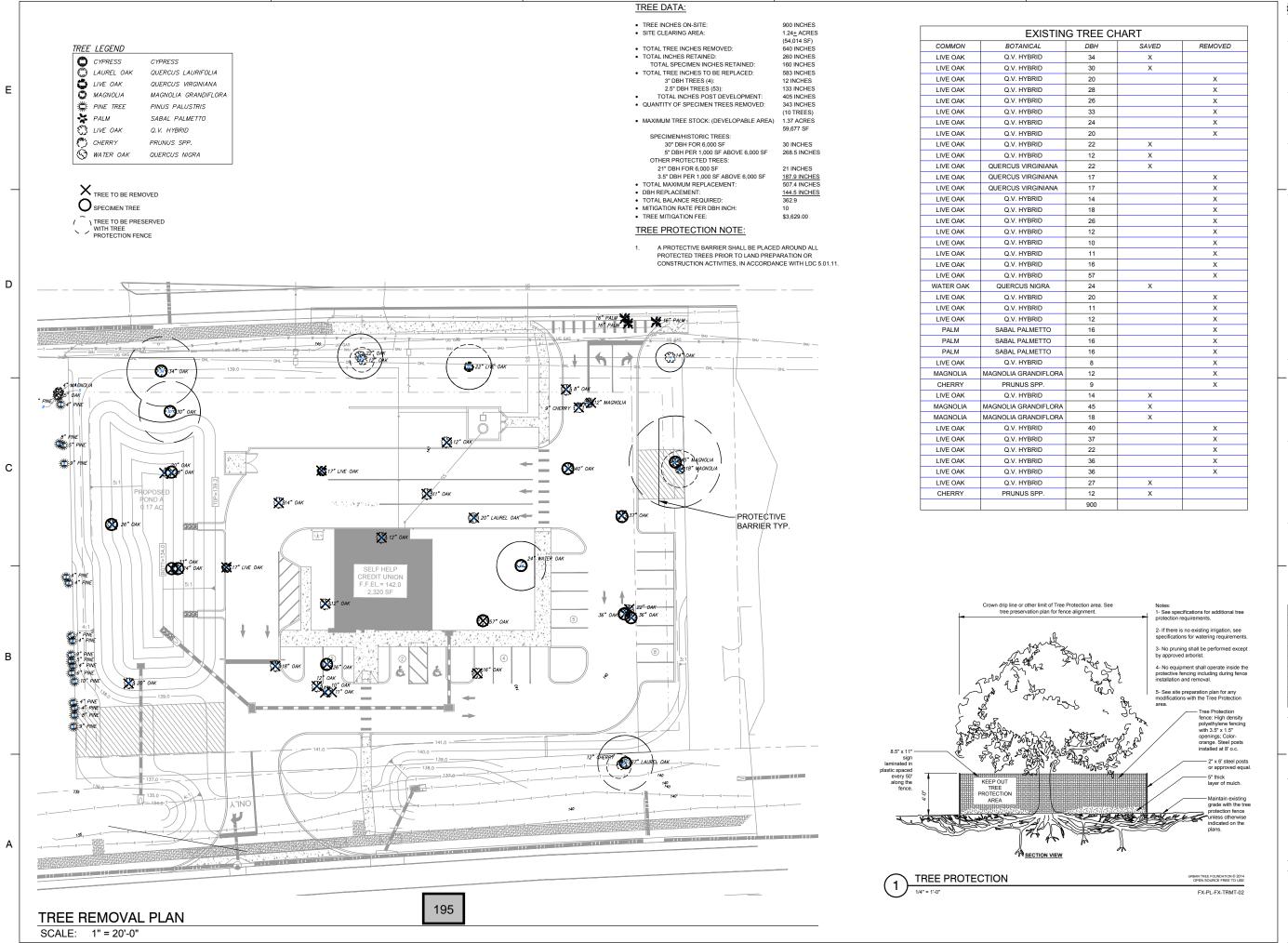
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**UTILITY DETAILS** 

08-14-2017

PROJECT NO. 50094806 [CRUN1]

TITLE



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**9** Dewberry

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PHONE: 470 F43.5190
ENGINEERING BUSINESS-87
LAND. ARCH. - LC28000569

SELF HELP CREDIT UNION FINAL SITE PLAN

Michael J. Urchuk F. H. M. \*\* 6066975

KEY PLAN

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DATE

JULY 6, 2017

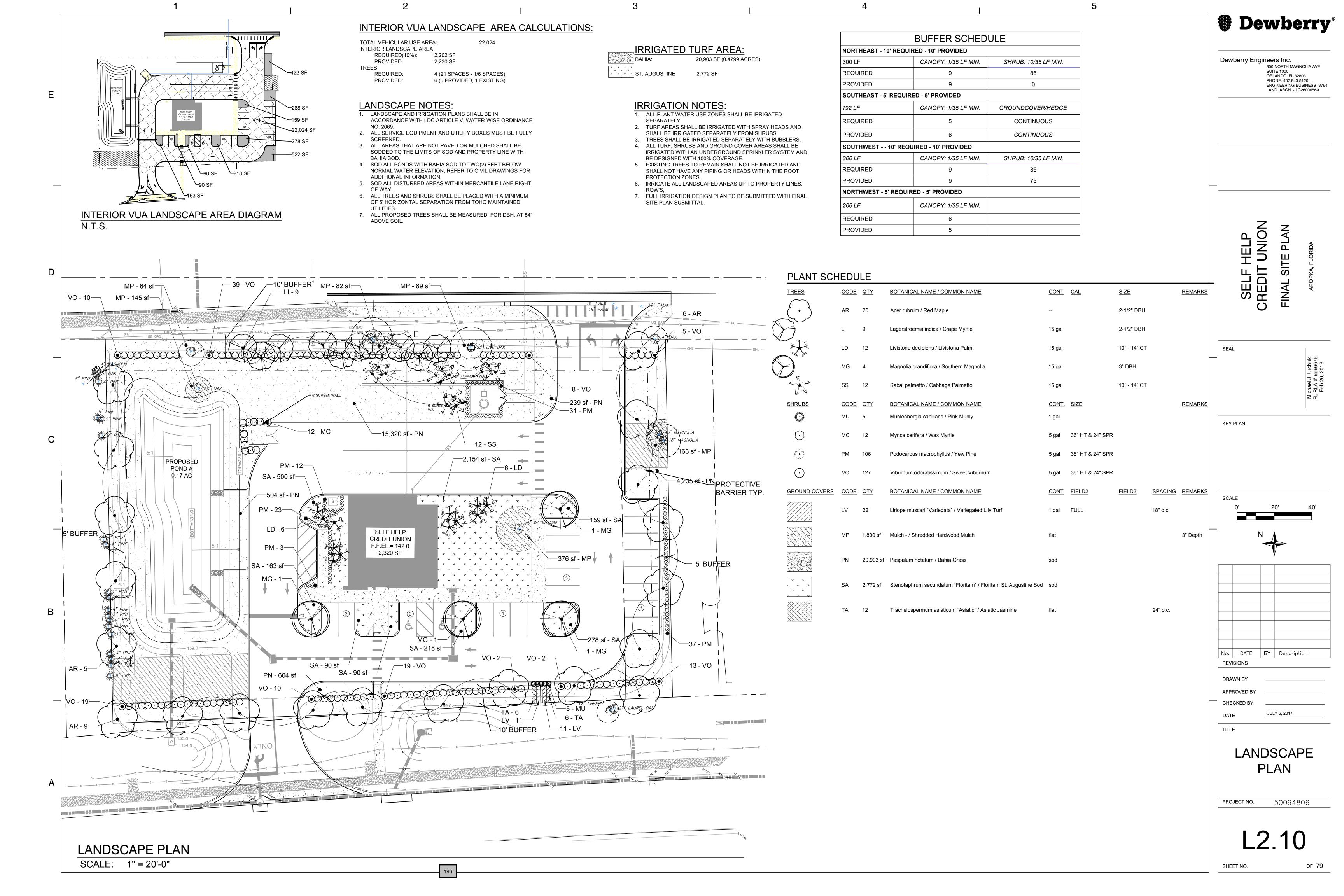
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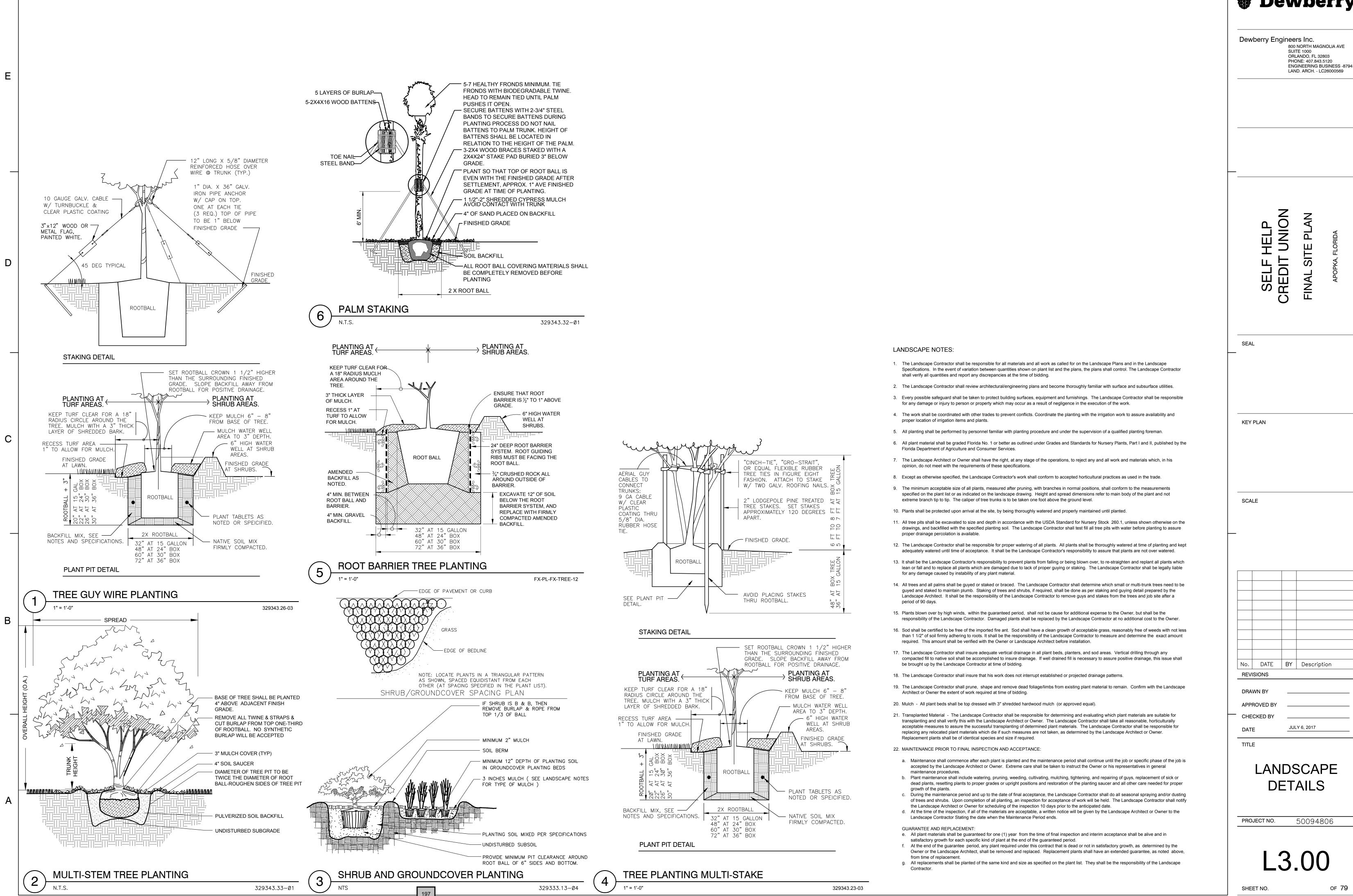
TREE REMOVAL PLAN

PROJECT NO. 50094806

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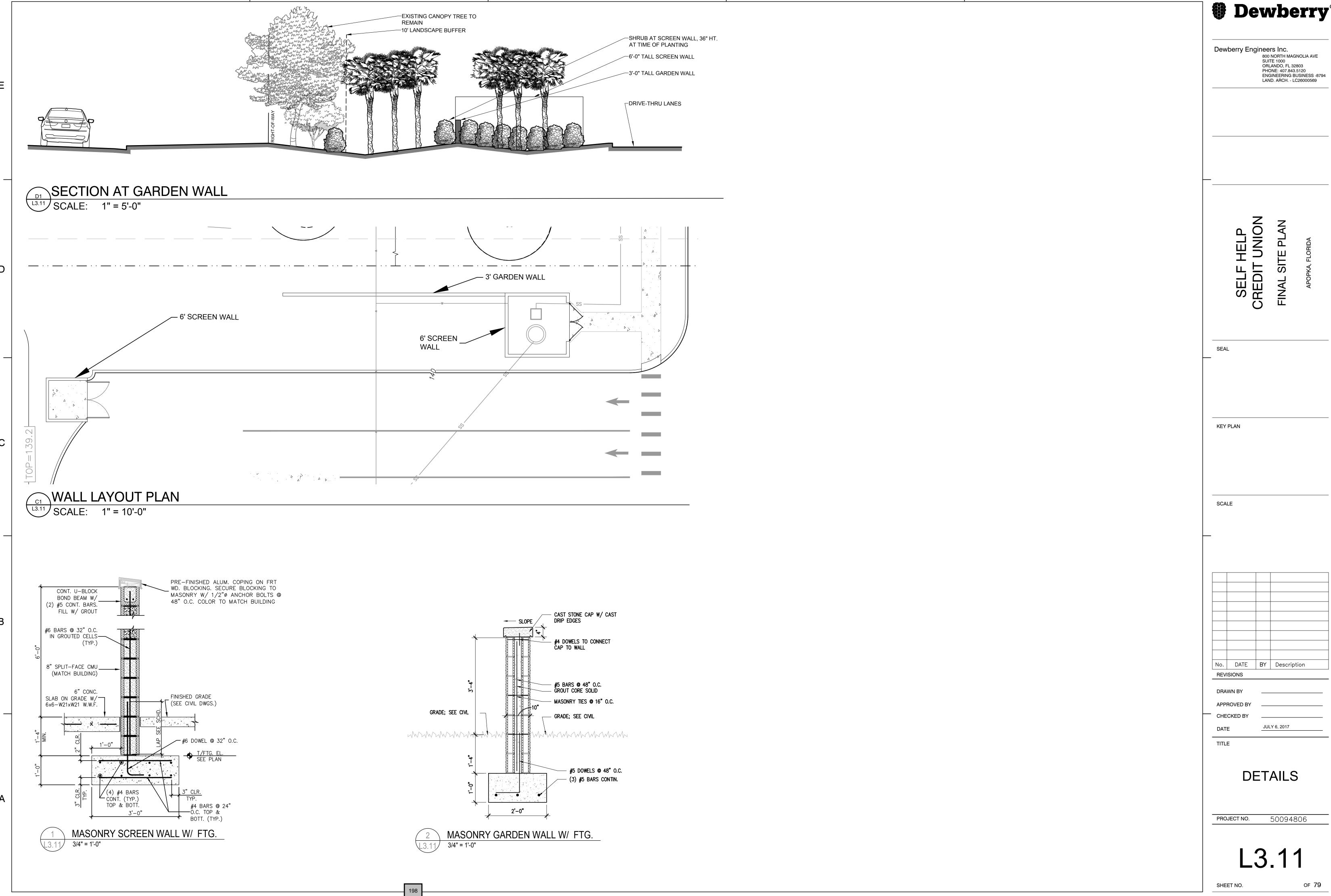
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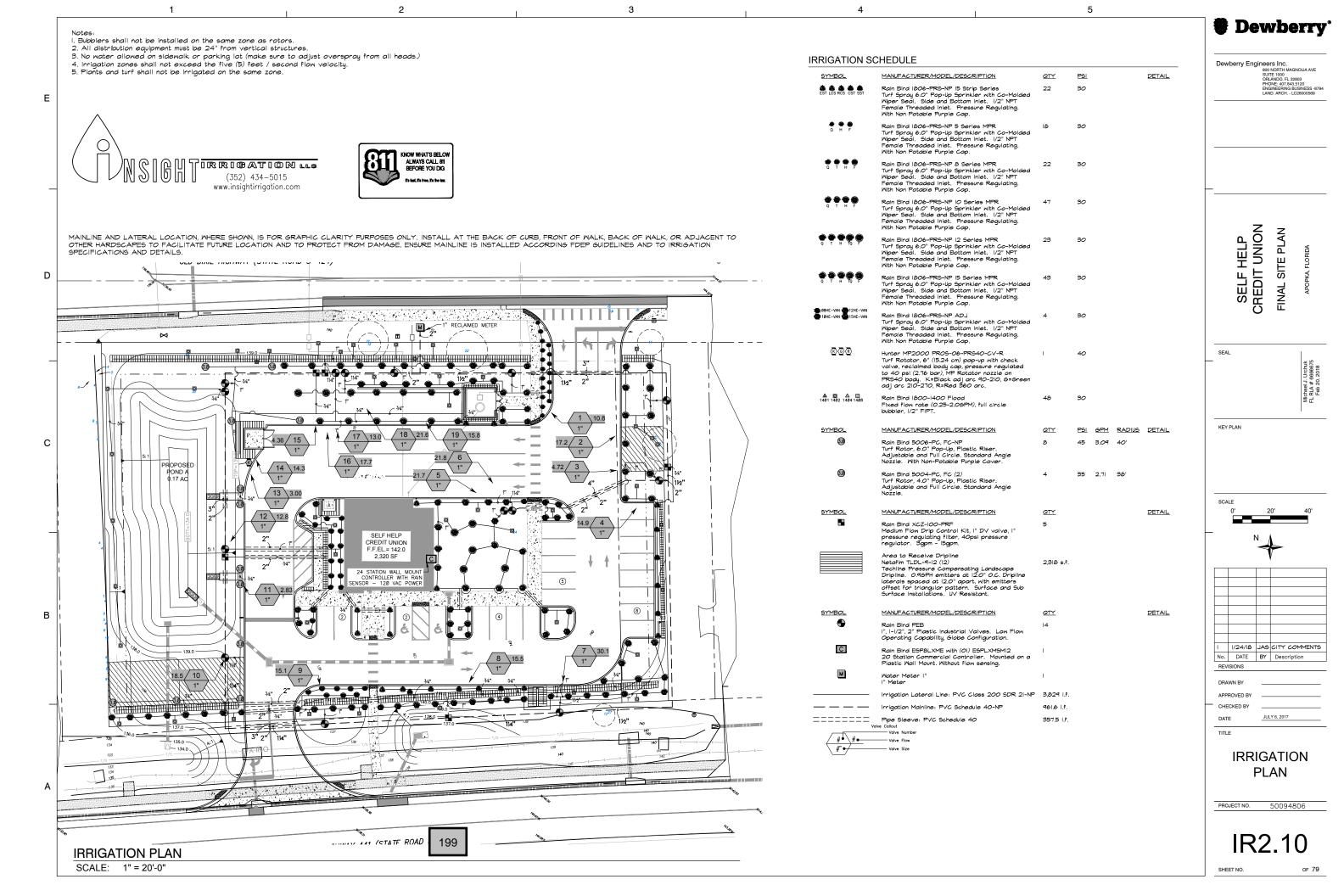
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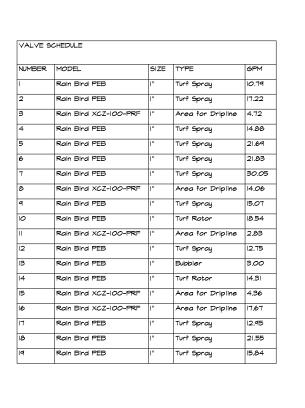
800 NORTH MAGNOLIA AVE



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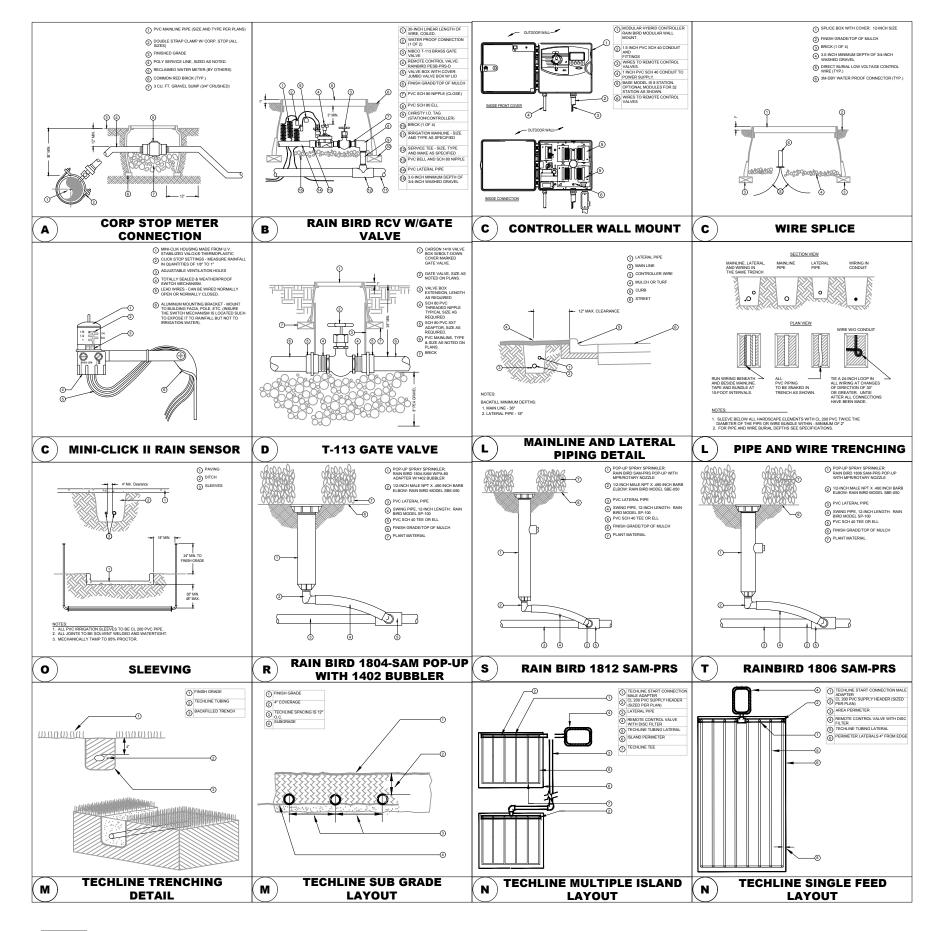




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ALWAYS CALL 811 BEFORE YOU DIG 2

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OFLANDO, FL 32803
PHONE: 407,843.5120
ENGINEERING BUSINESS -8794
LAND, ARCH - L-0280005690

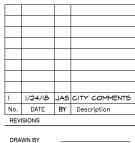
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SCALE



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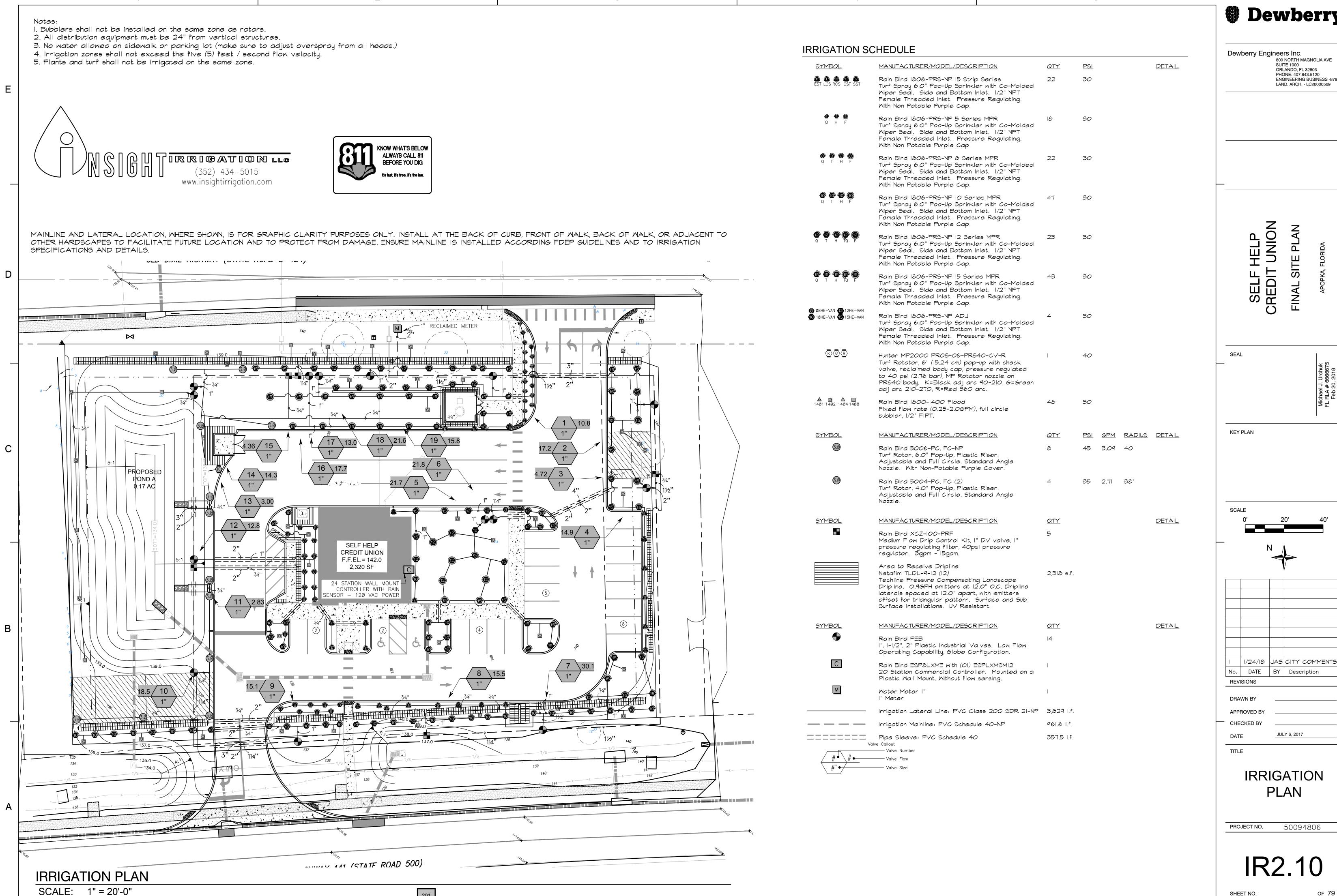
IRRIGATION DETAILS

PROJECT NO. 50094806

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SHEET NO.

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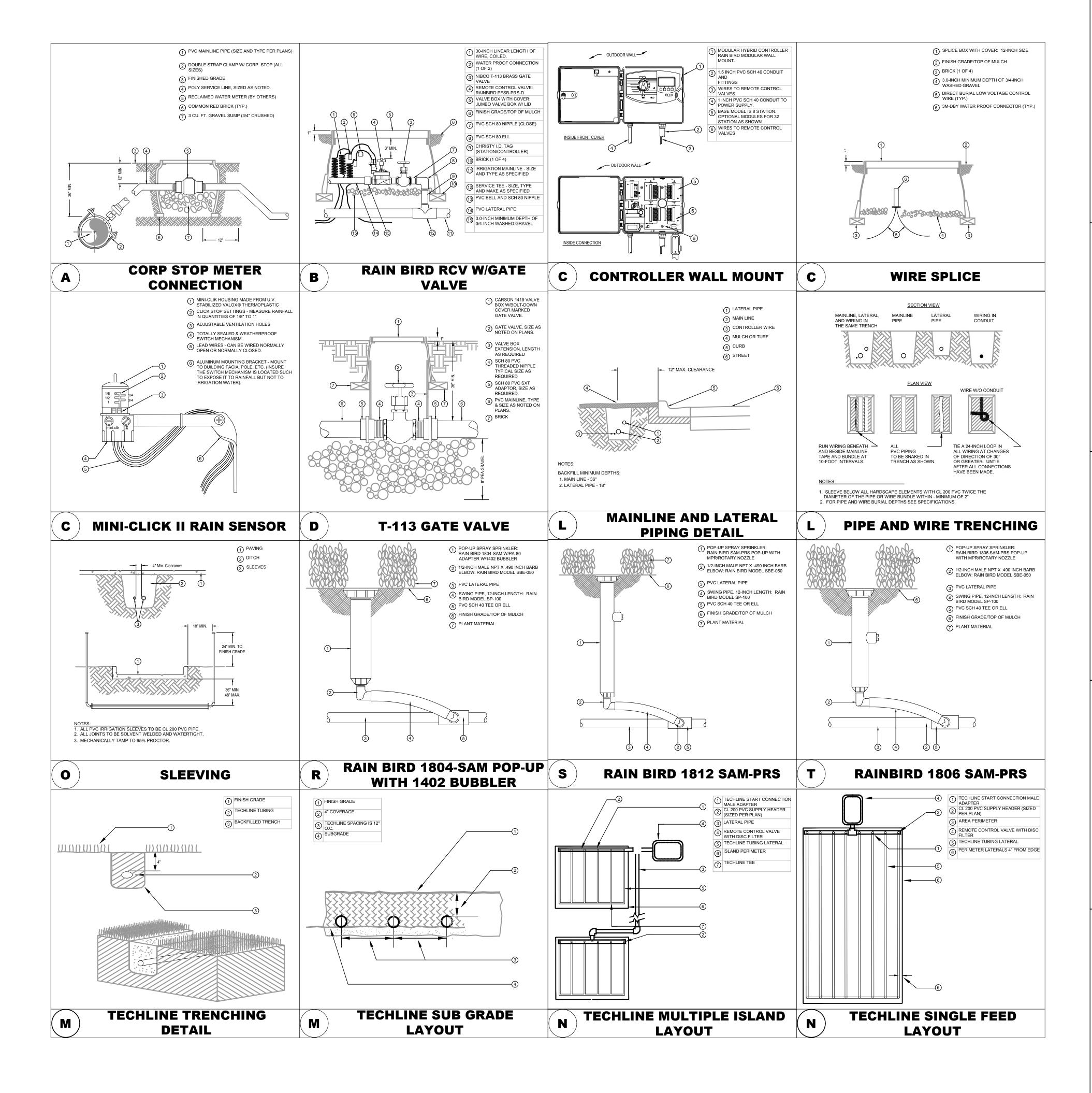
Dewberry\*

ENGINEERING BUSINESS -8794

1/24/18 JAS CITY COMMENTS

SHEET NO.

NUMBER	MODEL	SIZE	TYPE	GPM
1	Rain Bird PEB	1"	Turf Spray	10.79
2	Rain Bird PEB	1"	Turf Spray	17.22
3	Rain Bird XCZ-100-PRF	1"	Area for Dripline	4.72
4	Rain Bird PEB	1"	Turf Spray	14.88
5	Rain Bird PEB	1"	Turf Spray	21.69
6	Rain Bird PEB	1"	Turf Spray	21.83
7	Rain Bird PEB		Turf Spray	30.05
8	Rain Bird XCZ-100-PRF	Ι"	Area for Dripline	14.06
9	Rain Bird PEB	Ι"	Turf Spray	15.07
10	Rain Bird PEB	1"	Turf Rotor	18.54
II	Rain Bird XCZ-100-PRF		Area for Dripline	2.83
12	Rain Bird PEB	1"	Turf Spray	12.75
13	Rain Bird PEB	Ι"	Bubbler	3.00
14	Rain Bird PEB		Turf Rotor	14.31
15	Rain Bird XCZ-100-PRF	1"	Area for Dripline	4.36
16	Rain Bird XCZ-100-PRF	1"	Area for Dripline	17.67
17	Rain Bird PEB	1"	Turf Spray	12.95
18	Rain Bird PEB	1"	Turf Spray	21.55
19	Rain Bird PEB	]"	Turf Spray	15.84



IRRIGATION LLC (352) 434-5015 www.insightirrigation.com

KNOW WHAT'S BELOW ALWAYS CALL 811

BEFORE YOU DIG

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1/24/18 JAS CITY COMMENTS DATE BY Description **REVISIONS** 

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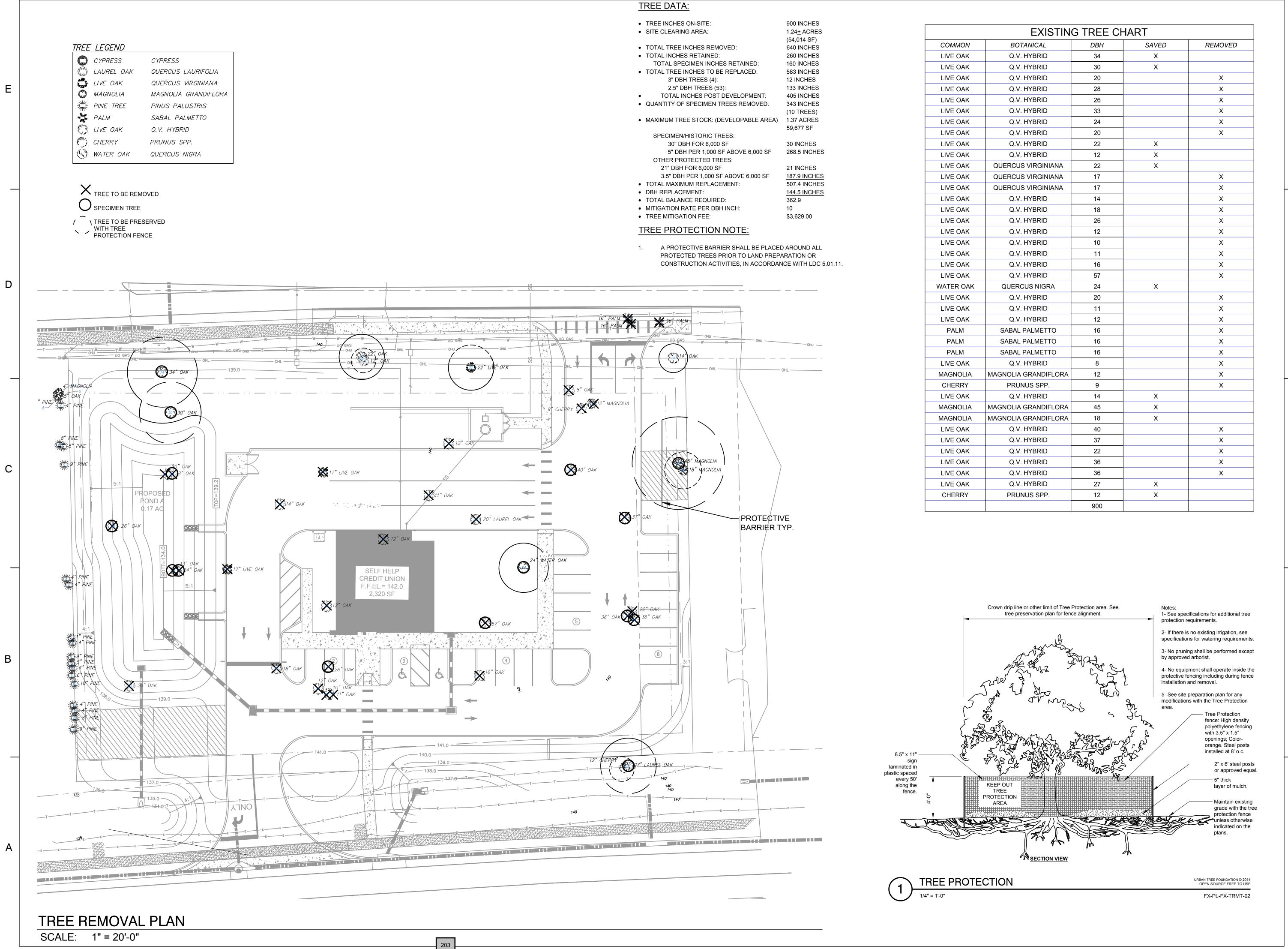
**IRRIGATION DETAILS** 

PROJECT NO. 50094806

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SHEET NO.

of **79** 



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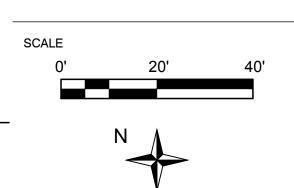
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SUITE 1000
ORLANDO, FL 32803
PHONE: 407.843.5120
ENGINEERING BUSINESS -8794
LAND. ARCH. - LC26000569

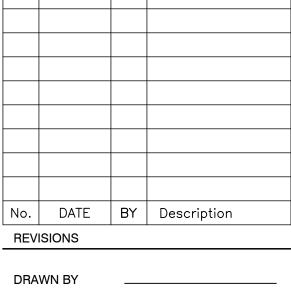
ELF HELP EDIT UNION AL SITE PLAN

Michael J. Urchuk FL RLA # 6666675 Feb 20, 2018

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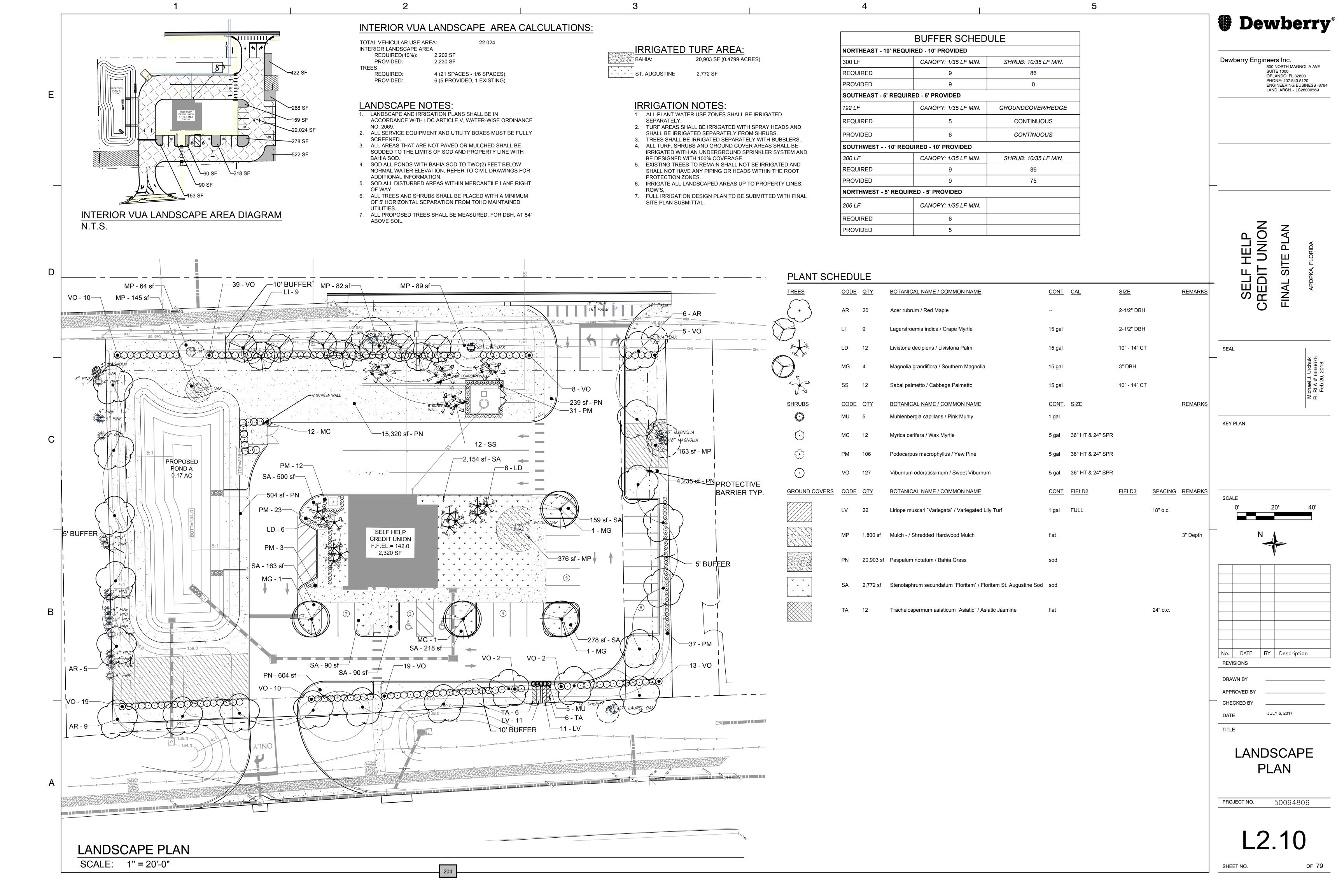
TREE REMOVAL PLAN

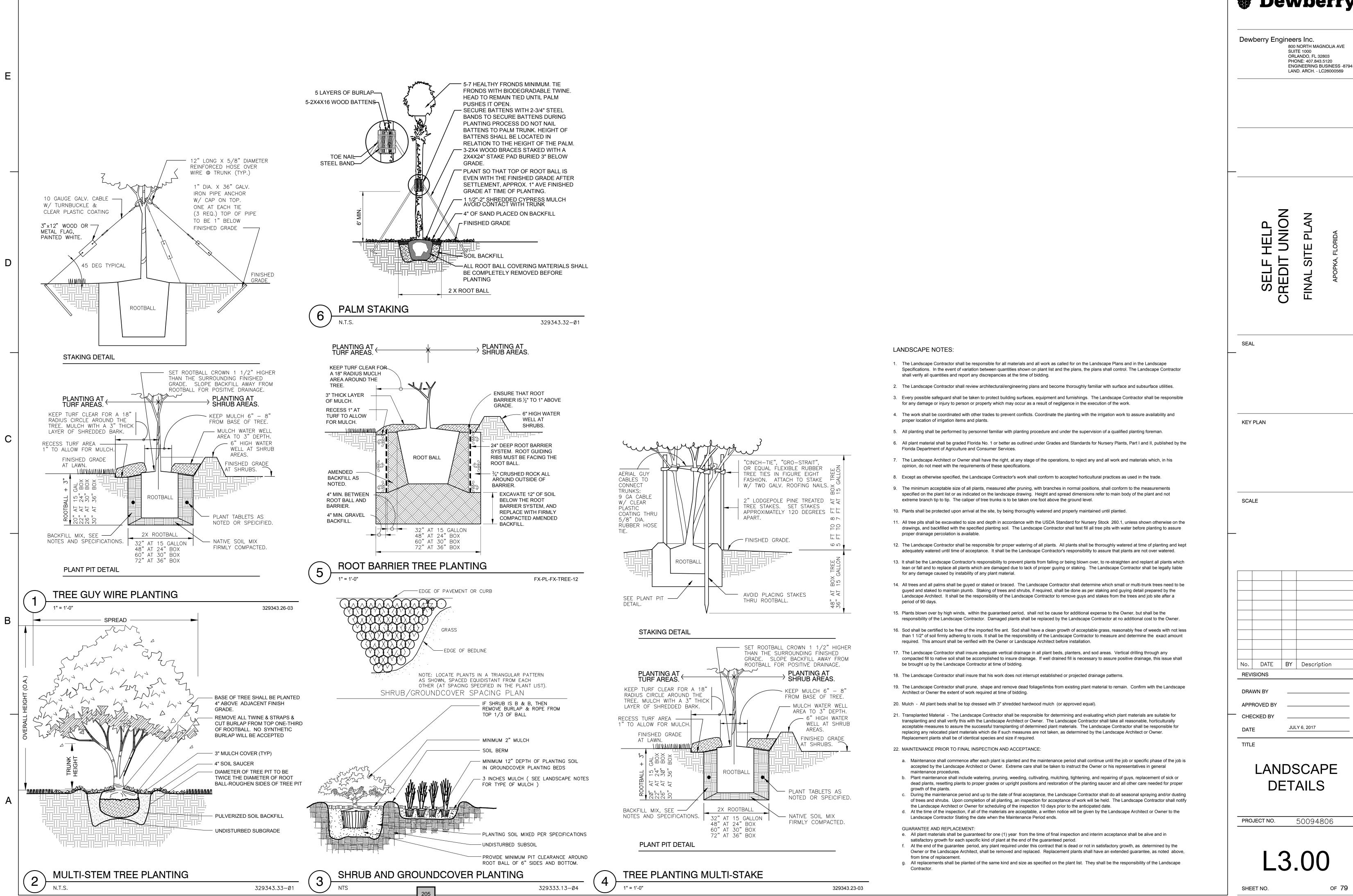
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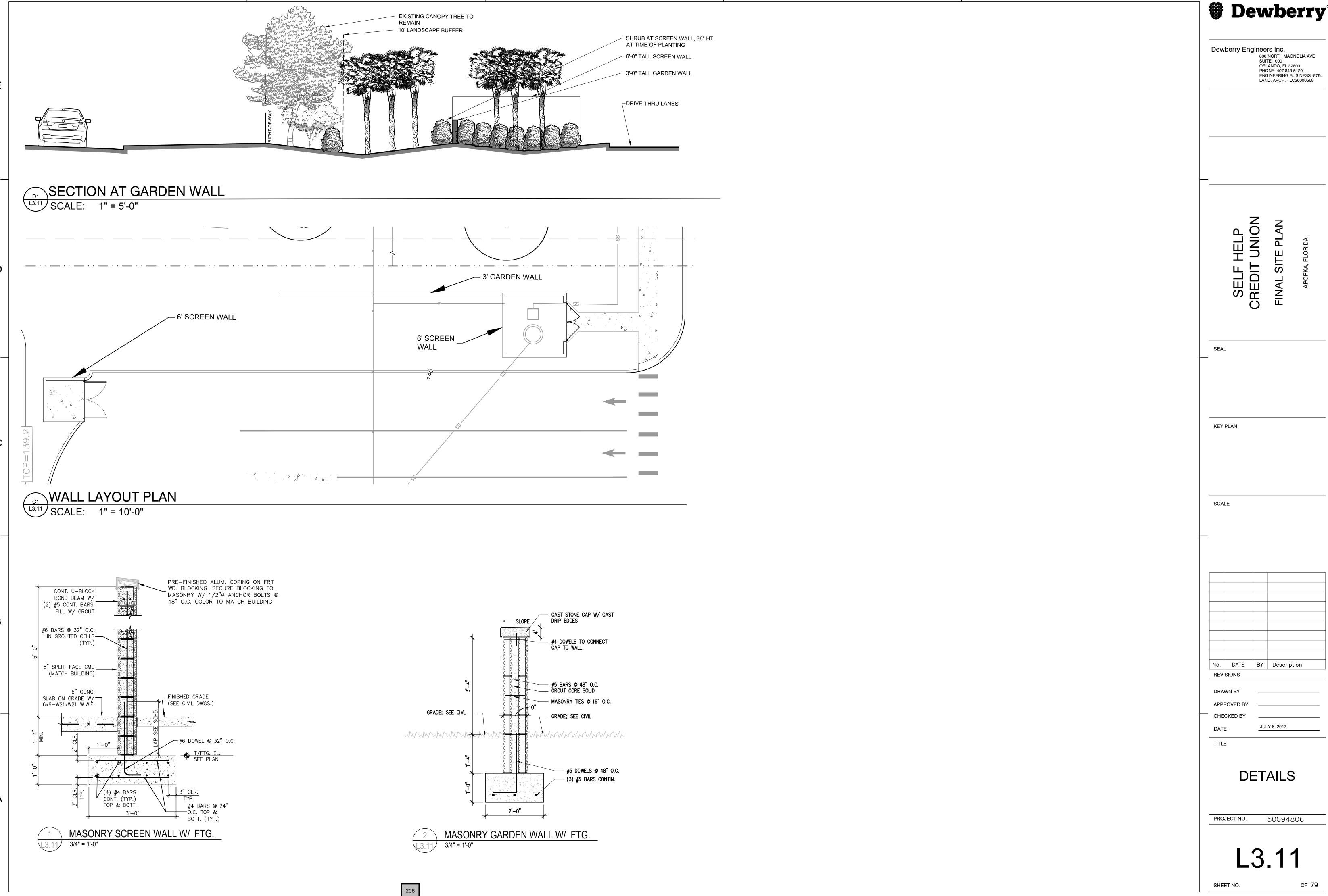
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of **79** 





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No. DATE BY Description

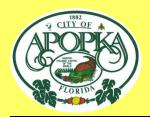
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of **79** 

Planning Commission March 13, 2018 Page 207

# Backup material for agenda item:

7. FINAL DEVELOPMENT PLAN/PLAT – ZARABROOKE SUBDIVISION - Owned by Zarabrooke, LLC, c/o Barry Kalmanson and located at 829 Paradiso Court. (Parcel ID #: 05-21-28-0000-00-056)



# CITY OF APOPKA **PLANNING COMMISSION**

X PUBLIC HEARING MEETING OF: March 13, 2018

SITE PLAN FROM: **Community Development** 

SPECIAL REPORTS **EXHIBITS:** Vicinity Map OTHER: Final Development Plan/Plat

Aerial Map

Final Development Plan/Plat

Landscape Plan

**SUBJECT:** FINAL DEVELOPMENT PLAN/PLAT FOR ZARABROOKE

**SUBDIVISION** 

RECOMMEND APPROVAL OF THE FINAL DEVELOPMENT **REQUEST:** 

PLAN/PLAT FOR ZARABROOKE SUBDIVISION

**SUMMARY**:

OWNER: Zarabrooke, LLC c/o Barry Kalmanson

APPLICANT/ENGINEER: Lochrane Engineering, Inc. c/o Edgardo Garcia-Luna

LOCATION: 829 Paradiso Court

PARCEL ID NUMBER: 05-21-28-0000-00-056

**FUTURE LAND USE:** Residential Low Density (max. 0-5 du/ac)

**ZONING:** R-3 (Residential Multiple Family)

**EXISTING USE:** Vacant

PROPOSED USE: Single Family Residential Subdivision (14) Lots

Minimum Lot Size: 9808 square feet; Minimum Lot Width: 70 feet

TRACT SIZE: 5.59 +/- acres

**DENSITY:** 2.68 du/ac (proposed)

**FUNDING SOURCE: N/A** 

**DISTRIBUTION** 

Mayor Kilsheimer Finance Director Public Services Director Commissioners **HR** Director **Recreation Director** 

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

G:\CommDev\PLANNING ZONING\SUBDIVISION PLANS\2018\Zarabrooke Subdivision\4 Planning Com Hearing

# RELATIONSHIP TO ADJACENT PROPERTIES:

Direction	Future Land Use	Zoning	Present Use
North (City)	Residential Estates	R-3	The Courtyards Residential Subdivision
East (City)	Office	PO/I	Vick Road Right-of-Way/Apopka High School
South (City)	Residential Low	PUD	Parkside at Errol Estates Subdivision
West (City)	Residential Low	PUD	Parkside at Errol Estates Subdivision

<u>Project Use:</u> The Zarabrooke Subdivision Final Development Plan proposes the development of 14 single family residential lots. The minimum typical lot width is 70 feet with a minimum lot size of 9,808 square feet. The required minimum living area for the subdivision is 1,350 square feet as set forth in Chapter 2 of the Land Development Code for single-family lots located within the R-3 zoning. The minimum setbacks applicable to this project are:

Setback	Min. Standard
Front	25'*
Side	7.5'**
Rear	20'
Corner	25'

<sup>\*</sup>Front-entry garage must be setback 30 feet.

Access: Ingress/egress access points for the development will be via full access onto Vick Road.

**Stormwater:** The retention pond on the western portion of the site has been designed to meet the City's Land Development Code requirements.

**<u>Buffer and Tree Program:</u>** A 6-feet tall masonry or concrete or brick-finished wall will be located on the east boundary of the project site with a subdivision entry sign and feature, abutting Vick Road. The plans shows a wrought-iron style fence with a brink posts on a portion of the stormwater pond, Tract A.

Buffers are provided consistent with the Land Development Code. A buffer wall is not located along the western boundary of the Duke Energy property. A screen wall is not required by the Land Development Code when a development abuts single family residential uses, and screen wall is not proposed by within the Final Development Plan. Future homeowners will have the option to install a fence along their rear lot lines.

# Tree Program:

The following is a summary of the tree replacement program:

Total number of specimen trees: 107
Total number of non-specimen trees: 53
Total inches retained: 1054
Total inches replaced: 480
Total inches post development: 1534

<sup>\*\*15</sup> feet distance requirement between structures.

# PLANNING COMMISSION – MARCH 13, 2018 ZARABROOKE SUBDIVISION – FINAL DEVELOPMENT PLAN/PLAT PAGE 3

Based on the number of tree inches preserved and additional tree inches replaced, a tree mitigation fee is not required for this project.

All preserved trees shall be protected during lot construction and grading. Appropriate tree barricades shall be installed around each tree or group of trees along the tree drip line.

**SCHOOL CAPACITY REPORT**: No development activity can occur until such time that a concurrency mitigation agreement has been approved by OCPS.

# **PUBLIC HEARING SCHEDULE:**

March 13, 2018 - Planning Commission, 5:30 p.m. April 4, 2018 - City Council, 1:30 p.m.

# **RECOMMENDATION ACTION:**

The **Development Review Committee (DRC)** recommends approval of the Zarabrooke Subdivision Final Development Plan/Plat subject to the findings of this staff report.

**Planning Commission:** Find the Zarabrooke Subdivision Final Development Plan consistent with the Comprehensive Plan and Land Development Code, and recommend approval of the Zarabrooke Subdivision Final Development Plan/Plat subject to the findings of this staff report.

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.

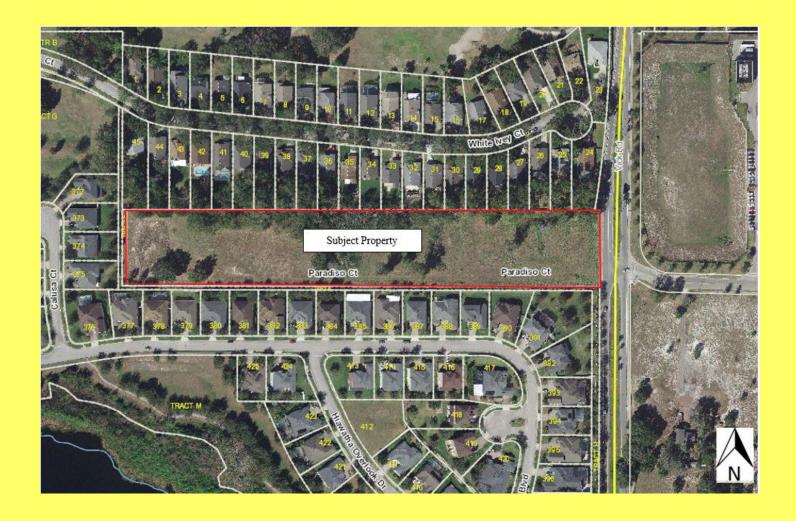
Zarabrooke, LLC c/o Barry Kalmanson Lochrane Engineering, Inc., c/o Edgardo Garcia-Luna Zarabrooke Subdivision 5.59 +/- Acres

Proposed number of units: 14 Parcel ID #s: 05-21-28-0000-00-056

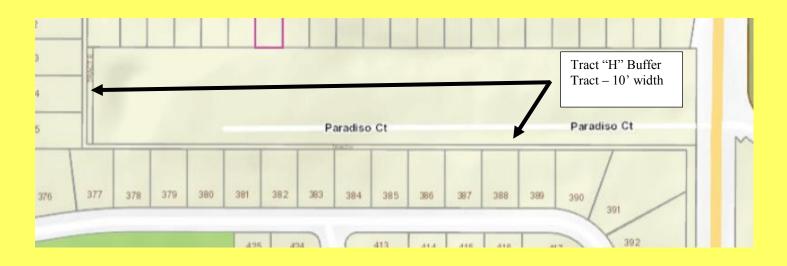
# **VICINITY MAP**

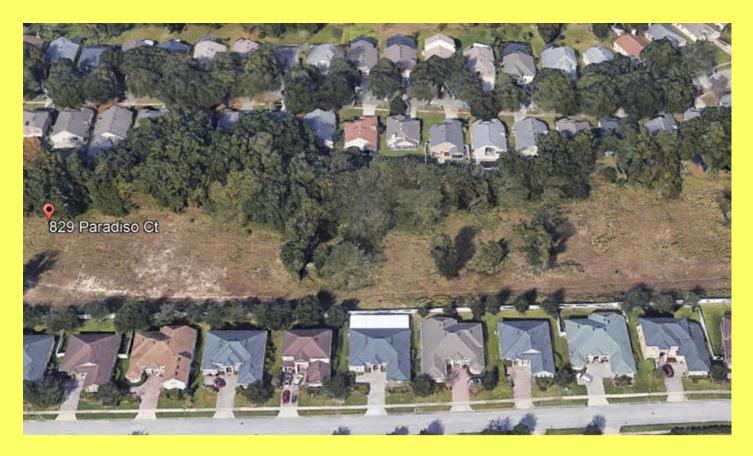


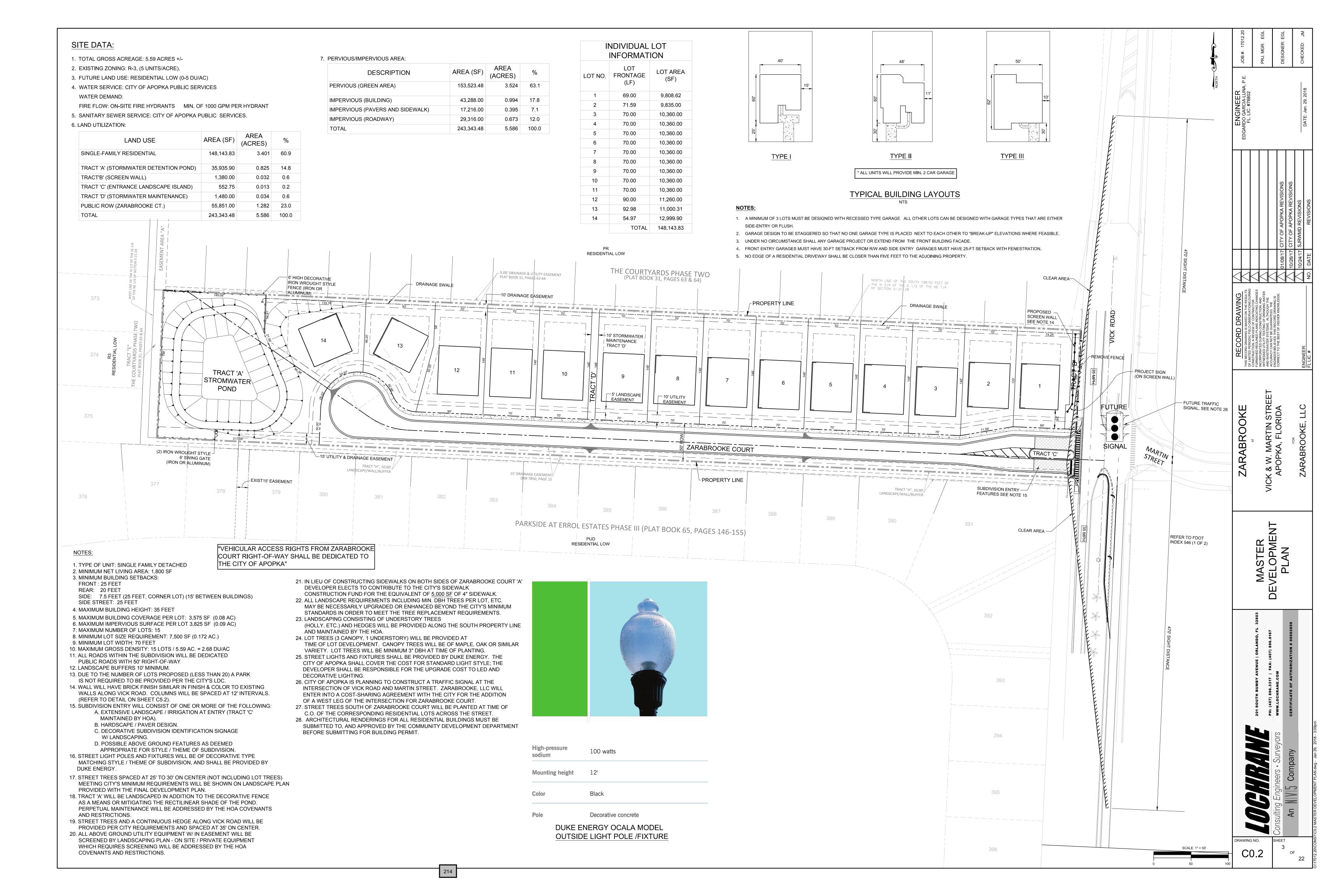
# **AERIAL MAP**



# Parkside at Errol Estates Phase Three Northern Buffer Tract "H": Landscape/Wall/Buffer







GENERAL NOTES

REPRESENTATIVE

LOCAL PRACTICES

REMOVED DAILY FROM THE SITE.

LANDSCAPE NOTES

OTHER TRADES AND THE OWNER'S REPRESENTATIVE

FAMILIAR WITH SURFACE AND SUBSURFACE UTILITIES.

DIGGING FOR FIELD VERIFICATION OF ALL UNDERGROUND UTILITIES.

WATER RETENTION AREA

11 UNDERSTORY TREES

17 CANOPY TREES

THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PROJECT SITE PRIOR TO BIDDING THE WORK. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND LOCATION OF PROPOSED

ALL UNDERGROUND UTILITIES AND OBSTRUCTIONS PRIOR TO INITIATING WORK. CONTRACTOR SHALL

BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY DAMAGE TO EXISTING ELEMENTS ABOVE OR

BELOW GROUND TO ITS ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER'S

2. LOCATION OF ALL UTILITIES AND BASE INFORMATION IS APPROXIMATE. CONTRACTOR SHALL VERIFY

3. THE OWNER'S REPRESENTATIVE SHALL HAVE THE RIGHT, AT ANY STAGE OF THE OPERATIONS, TO REJECT ANY AND ALL WORK AND MATERIAL WHICH, IN HIS OPINION, DO NOT MEET WITH THE

ALL GRADES, DIMENSIONS, AND EXISTING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB SITE PRIOR TO START OF

6. REPORT ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND FIELD CONDITIONS TO

7. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFETY MEASURES DURING CONSTRUCTION OPERATIONS TO PROTECT THE PUBLIC ACCORDING TO ALL APPLICABLE CODES AND RECOGNIZED

8. THE CONTRACTOR SHALL COORDINATE ACCESS AND STAGING AREAS WITH THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING EROSION AND SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION. PROVIDE ADDITIONAL MEASURES AS NECESSARY TO MINIMIZE ADVERSE IMPACTS IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL

9. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN CONSENT OF THE OWNER'S REPRESENTATIVE. DURING THE COURSE OF THIS WORK, EXCESS WASTE MATERIAL SHALL BE

11. THE CONTRACTOR SHALL NOTIFY ALL NECESSARY UTILITY COMPANIES 48 HRS MINIMUM PRIOR TO

12. ALL EXISTING SITE ROADS, PARKING LOTS, CURBS, UTILITIES, SEWERS, AND OTHER ELEMENTS TO

1. THE CONTRACTOR SHALL REVIEW ARCHITECTURE/ENGINEERING PLANS TO BECOME THOROUGHLY

2. THE PLANT QUANTITIES SHOWN ON THE LANDSCAPE CONTRACT DOCUMENTS ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES AND REPORTING ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT FOR

3. ALL INSTALLATION OF PLANT MATERIAL SHALL COMPLY WITH APPLICABLE JURISDICTIONAL CODES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS ASSOCIATED WITH THIS WORK. PRIOR TO PLANTING INSTALLATION, THE CONTRACTOR SHALL CONFIRM THE AVAILABILITY OF ALL THE SPECIFIED PLANT MATERIALS. SUBMIT DATED PHOTOGRAPHS OF TREE MATERIAL AND SPECIMEN

5. ALL PLANT MATERIAL SIZES SPECIFIED ARE MINIMUM SIZES. CONTAINER SIZE SHALL BE INCREASED IF

6. IF PLANT MATERIAL DOES NOT COMPLY WITH THE REQUIREMENTS AS SPECIFIED HEREIN, THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT SUCH PLANTS AND REQUIRE THE CONTRACTOR TO REPLACE REJECTED WORK AND CONTINUE SPECIFIED MAINTENANCE UNTIL

THE CONTRACTOR SHALL TEST THE PROJECT SOILS TO VERIFY THAT THE SOILS ON-SITE ARE

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STABILITY AND PLUMB CONDITION OF ALL TREES AND

9. THE CONTRACTOR SHALL INSURE ADEQUATE VERTICAL DRAINAGE IN ALL PLANT BEDS AND PLANTERS, IF INADEQUATE VERTICAL DRAINAGE IS ENCOUNTERED, THE CONTRACTOR SHALL SUBMIT

RECOMMENDATIONS FOR PROVIDING ADEQUATE DRAINAGE TO THE OWNER'S REPRESENTATIVE.

11. THE CONTRACTOR SHALL BEAR ALL COSTS OF TESTING OF SOILS, AMENDMENTS, ETC. ASSOCIATED

12. CONTRACTOR SHALL FIELD-ADJUST LOCATION OF PLANT MATERIAL PRIOR TO INITIATING

13. ALL PLANT MATERIAL SHALL BE IN FULL AND STRICT ACCORDANCE WITH FLORIDA NO. 1 GRADE,

14. ALL PLANTING BEDS SHALL BE TOP-DRESSED WITH A 1" LAYER OF MULCH AS SPECIFIED. ALL TREES

15. SHRUB AND GROUND COVER BED QUANTITIES ARE INDICATED ON THE PLANT LIST. PLANT ACCENT

16. PALM HEIGHTS, IF INDICATED ON THE PLANS, REFER TO CLEAR TRUNK (C.T.), GRAY WOOD (G.W.), OR

ACCORDING TO THE "GRADES AND STANDARDS FOR NURSERY PLANTS" PUBLISHED BY THE FLORIDA

SHALL HAVE NO MORE THAN 1" THICK, 24" RADIUS (FROM THE TRUNK) MULCH RING PLACED ON TOP

SHRUBS AND TREES AS SHOWN ON THE LANDSCAPE PLANTING PLANS WHEN INDIVIDUAL PLANTS ARE

INSTALLATION FOR THE REVIEW AND APPROVAL OF THE OWNER'S REPRESENTATIVE.

DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.

OVERALL HEIGHT (O.A.) AS SPECIFIED ON THE PLANT LIST.

SHRUBS, AND SHALL BE LEGALLY LIABLE FOR ANY DAMAGE CAUSED BY INSTABILITY OF ANY PLANT MATERIALS. STAKING OF TREES OR SHRUBS SHALL BE DONE IN ACCORDANCE WITH PLANS AND

ACCEPTABLE FOR PROPER GROWTH OF PLANT MATERIALS AND ADEQUATE DRAINAGE IN PLANT BEDS AND PLANTERS. THE CONTRACTOR SHALL COORDINATE THE LOCATION AND PROCUREMENT OF EXISTING ON-SITE SOIL SAMPLES WITH THE OWNER'S REPRESENTATIVE. REPRESENTATIVE SAMPLES SHALL BE SUBMITTED TO A CERTIFIED TESTING LABORATORY FOR ANALYSIS. THE FINDINGS, TOGETHER WITH RECOMMENDATIONS FOR AMENDING THE SOILS SHALL BE REVIEWED AND APPROVED BY THE OWNER'S REPRESENTATIVE AND PRIOR TO DELIVERY AND INSTALLATION OF

REMAIN SHALL BE FULLY PROTECTED FROM ANY DAMAGE UNLESS OTHERWISE NOTED.

CLARIFICATION PRIOR TO CONTRACT AWARD AND COMMENCEMENT OF WORK.

PLANT MATERIAL TO THE OWNER'S REPRESENTATIVE FOR REVIEW.

NECESSARY TO PROVIDE OVERALL PLANT SIZE SPECIFIED.

REINSPECTED AND FOUND TO BE ACCEPTABLE.

10. PEG SOD ON SLOPES GREATER THAN 3:1.

OF THE ROOT BALL.

ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THESE DRAWINGS.

CONSTRUCTION AND/OR FABRICATION. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE OF

ON-SITE BEFORE CONSTRUCTION BEGINS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE

IMPROVEMENTS PRIOR TO INITIATING ANY CONSTRUCTION.

REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS.

ZARABROOKE COURT

PERIMETER BUFFER = 1228.1

YARD LANDSÇAPE PER BUILDER

CANOPY TREES REQUIRED =1228.1/35=35.0=35

 $\sim$ SOUTH LINE OF THE N 3/4 OF THE NE 1/4 OF SECTION 5-21-28

24. THE CONTRACTOR SHALL ENGAGE A QUALIFIED ARBORIST WHO HAS SUCCESSFULLY COMPLETED

TREE PROTECTION AND TREE TRIMMING WITH FIVE YEARS OR MORE EXPERIENCE, TO PERFORM THE A. CONTRACTOR SHALL PROTECT EXISTING VEGETATION TO REMAIN AS SHOWN ON DRAWINGS OR

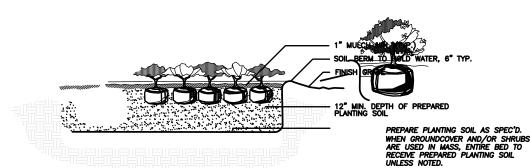
BY MEANS APPROVED BY THE OWNER'S REPRESENTATIVE.

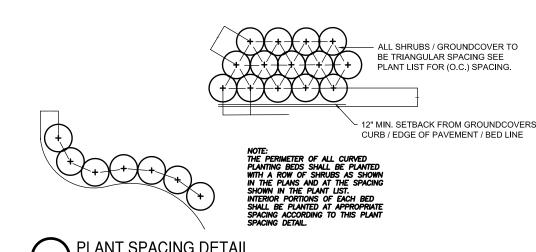
OWNER'S REPRESENTATIVE. CREATE SMOOTH BED LINES AROUND EXISTING VEGETATION.

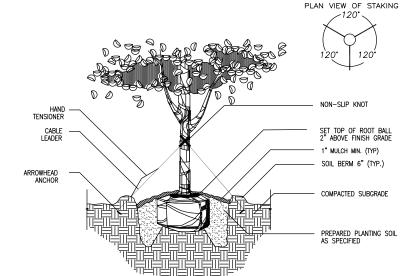
TO ACCOMMODATE NEW CONSTRUCTION.

E. CONTRACTOR SHALL REPLACE (BY EQUAL SIZE AND QUALITY) ANY AND ALL EXISTING PLANT MATERIAL DISTURBED OR DAMAGED BY PLANT REMOVAL, RELOCATION, AND/OR INSTALLATION

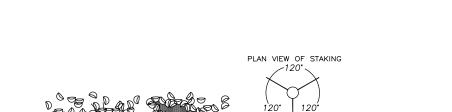
F. IF TREES ARE RELOCATED, CONTRACTOR SHALL PROVIDE TEMPORARY IRRIGATION SYSTEM.













17. CONTRACTOR SHALL COORDINATE ALL PLANTING WORK WITH IRRIGATION WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HAND WATERING AS REQUIRED TO SUPPLEMENT IRRIGATION 18. CONTRACTOR SHALL BE RESPONSIBLE FOR HAND WATERING IN ALL PLANTING AREAS, REGARDLESS

OF THE STATUS OF EXISTING OR PROPOSED IRRIGATION. 19. CONTRACTOR SHALL REGRADE ALL AREAS DISTURBED BY PLANT REMOVAL, RELOCATION, AND/OR INSTALLATION WORK.

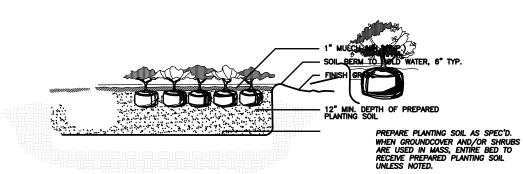
20. MAINTENANCE SHALL BEGIN AFTER EACH PLANT HAS BEEN INSTALLED AND SHALL CONTINUE UNTIL THE DATE OF SUBSTANTIAL COMPLETION, MAINTENANCE INCLUDES WATERING, PRUNING, WEEDING, MULCHING, REPLACEMENTS OF SICK OR DEAD PLANTS, AND ANY OTHER CARE NECESSARY FOR THE PROPER GROWTH OF THE PLANT MATERIAL

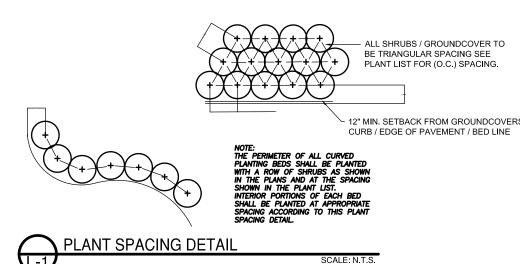
21. UPON COMPLETION OF ALL LANDSCAPING, AN INSPECTION FOR SUBSTANTIAL COMPLETION OF THE WORK SHALL BE HELD. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR SCHEDULING THE INSPECTION AT LEAST SEVEN (7) DAYS PRIOR TO THE ANTICIPATED INSPECTION

PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION. 23. CONTRACTOR MUST APPROVE ALL GRADED AREAS PRIOR TO THE COMMENCEMENT OF PLANTING.

B. CONTRACTOR TO CLEAN, PRUNE, AND SHAPE EDGES OF EXISTING VEGETATION AS DIRECTED BY

C. PERFORM INITIAL PRUNING OF BRANCHES AND STIMULATION OF ROOT GROWTH WHERE REMOVED D. PERFORM TREE REPAIR WORK FOR DAMAGE INCURRED BY NEW CONSTRUCTION.





# TOTAL INCHES POST DEVELOPMENT 1,534" 1. THE FINAL LANDSCAPE PLAN MAY VARY IN THE DISTRIBUTION OF TREE TYPE, DBH, OR SPECIES BUT THE TOTAL INCHES PROPOSED MUST BE PROVIDED. 2. THE DEVELOPER REQUESTS THE 9" OF REQUIRED MISSING REPLACEMENT TREES, BE WAIVED BY THE CITY IF THE CITY DETERMINES THAT THE REMAINING NUMBER OF TREES PRESERVED ON SITE AND THE PROPOSED 780" OF NEW CALIPER ARE OF SUFFICIENT NUMBER AND QUALITY TO SUBSTANTIALLY COMPLY

TREE REPLACEMENT PLAN:

TOTAL SITE SAVED =

RESIDENCE.

REPLACEMENT INCHES = 160 X 3" = 480"

WITH THE PURPOSE AND INTENT OF THE CODE.

3. ALL TREES LOCATED IN THE ENTRY AND RETENTION

AREA WILL BE PLANTED BY THE DEVELOPER. ALL

PRIOR TO CERTIFICATE OF OCCUPANCY OF THE

TREES LOCATED ON LOTS AND ALONG ZARABROOKE

CT WILL BE PLANTED BY THE BUILDER AND INSTALLED

TOTAL SITE NEW

= 107 CANOPY, 53 UNDERSTORY

1,054"

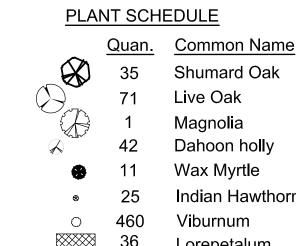
# ENTRY WALL PERSPECTIVE

**Botanical Name** 

Quercus shumardii

LANDSCAPE PLAN Scale: 1"=50"





ZARABROOKE

Wax Myrtle Indian Hawthorn Viburnum 36 Lorepetalum 350 Dwarf Confederate Jasmine

Magnolia

Sod & Mulch

Bahiagrass TBD Pine bark

Paspalum Notatum 'Argentine'

Quercus virginiana Magnolia grandiflora llex cassine

Myrica cerifera Raphiolipes indica Viburnum odoratissimum Loropetalum chinensis Trachleospermum asiaticum 3" Caliper DBH; 12' Height As Shown 3" Caliper DBH; 12' Height As Shown 3" Caliper DBH; 10' Height As Shown 3" Caliper DBH; 10' Height 3 Gallon; 15-18" x 15-18" 3 Gallon; 30" Height 3 Gallon; 15-18" x 15-18" 1 Gallon; 9-12" spread

3" Caliper DBH; 12' Height

As Shown As Shown

As Shown 24" on Center 24" on Center

Spacing

As Shown

3" thick in all planting beds

IF THIS SHEET IS LESS THAN 24" X 36" IT IS A REDUCED DRAWING

NORTH)

'See "Entr**≭**Wall Perspective" below

RAWN BY: HECKED BY: LANDSCAPE PLAN CALE: AS NOTED



# FINAL DEVELOPMENT PLANS

# SITE DATA

	OIIL				
PARCEL ID NO.	05-21-28-0000-00-022, 056, 057, 058, 059, 060, 061, 062, 063, 064, 065, 066, 067, 068, 069, 070, 071				
FUTURE LAND USE	RESIDENTIAL LOW				
ZONING	R-3				
ADJACENT LAND USE	NORTH: RESIDENTIAL LO	DW EAST: PUBLIC RIGHT OF WAY			
	SOUTH: RESIDENTIAL LO	OW WEST: RESIDENTIAL LOW			
ADJACENT ZONING	NORTH: PR	EAST: PUBLIC RIGHT OF WAY			
	SOUTH: PUD	WEST: PUD			
ACREAGE/SQUARE FOOTAGE	ACRES: 5.59	SF: 243,343			
BUILDING HEIGHT	PROPOSED: 35 FEET	MAX: 35 FEET			
DENSITY	PROPOSED: 2.68 DI	J/AC			
BUILDING SETBACKS	PROPOSED: FRONT: 2	5' SIDE: 7.5' REAR: 20' CORNER: 25'			
	REQUIRED: FRONT: 2	5' SIDE: 7.5' REAR: 20' CORNER: 25'			
TREE BANK MITIGATION FEE	N/A				
WAIVER REQUEST	N/A				
VARIANCE REQUEST	N/A				

# LEGAL DESCRIPTION

THE SOUTH 198.00 FEET OF THE NORTH 3/4 OF THE EAST 1/2 OF THE NORTHEAST 1/4 OF SECTION 5, TOWNSHIP 21 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA; LESS THE WEST 12 FEET THEREOF AND LESS AND EXCEPT ROAD RIGHT-OF-WAY ON THE EAST.

BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE EAST 1/4 CORNER OF SECTION 5, TOWNSHIP 21 SOUTH RANGE 28 EAST, ORANGE COUNTY, FLORIDA; THENCE RUN N 02°25'40"E ALONG THE EAST LINE OF NORTHEAST 1/4 SAID SECTION 5, A DISTANCE OF 663.59 FEET TO THE SOUTHEAST CORNER OF THE NORTH 3/4 OF THE NORTHEAST 1/4 OF SAID SECTION 5; THENCE RUN N 87°40'52"W ALONG THE SOUTH LINE OF SAID NORTH 3/4 A DISTANCE OF 80.00 FEET TO A POINT ON THE WESTERLY RIGHT-OF-WAY LINE OF VICK ROAD (80' RIGHT-OF-WAY) FOR A POINT OF BEGINNING; THENCE CONTINUE N 87°40'52"W ALONG SAID SOUTH LINE OF THE NORTH 3/4 OF THE NORTHEAST 1/4 OF AFORESAID SECTION 5 A DISTANCE OF 1228.88 FEET TO THE SOUTHEAST CORNER OF TRACT "E", THE COURTYARDS PHASE TWO, AS RECORDED IN PLAT BOOK 31, PAGES 63 & 64, ORANGE COUNTY, FLORIDA; THENCE RUN N 02°21'04"E ALONG THE EAST LINE OF SAID "TRACT "E" 198.00 FEET TO THE SOUTHERLY LINE OF LOT 45, OF SAID "THE COURTYARDS PHASE TWO"; THENCE RUN S 87°40'52"E ALONG THE SOUTHERLY LINES OF LOTS 24 THRU 45, OF SAID "THE COURTYARDS PHASE TWO" 1229.14 FEET TO THE AFORESAID WESTERLY RIGHT-OF-WAY LINE OF VICK ROAD; THENCE RUN S 02°25'40"W ALONG SAID WESTERLY RIGHT-OF-WAY LINE 198.00 FEET TO THE POINT OF BEGINNING.

CONTAINING 5.59 ACRES MORE OR LESS.

# NOTE:

LETTER SHALL BE OBTAINED FROM THE FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FFWCC) REGARDING MANAGEMENT PLAN FOR ENDANGERED SPECIES, PRIOR TO ANY CONSTRUCTION ACTIVITIES ON SITE.

# ZARABROOKE SUBDIVISION

AT

VICK ROAD AND WEST MARTIN STREET APOPKA, FLORIDA ORANGE COUNTY

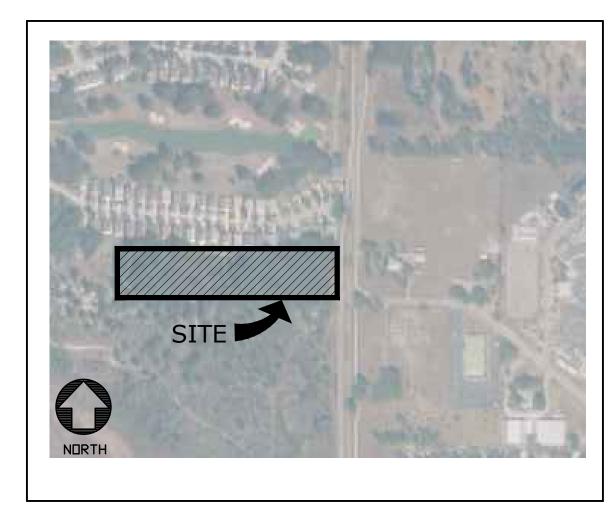
FOR

OWNER
ZARABROOKE, LLC
500 N. MAITLAND AVENUE SUITE #305
MAITLAND, FLORIDA 32751
PH. (407) 645-4500

CIVIL ENGINEER
LOCHRANE ENGINEERING, INC.
201 SOUTH BUMBY AVENUE
ORLANDO, FLORIDA 32803
PH. (407) 896-3317



VICINITY MAP



**AERIAL PHOTO** 

# CONSULTANTS AND UTILITIES

DEVELOPER / OWNER REPRESENTATIV ZARABROOKE., LLC 500 N. MAILTAND AVENUE SUITE #305 MAITLAND , FLORIDA 32751 BARRY KALMANSON 407-645-4500

CIVIL ENGINEER
LOCHRANE ENGINEERING, INC.
201 SOUTH BUMBY AVENUE
ORLANDO, FLORIDA 32803
EDGARDO GARCIA-LUNA, P.E.
407-896-3317

GEOTECHNICAL
PROFESSIONAL SERVICE INDUSTRIES, INC.
1748 33RD STREET
ORLANDO, FLORIDA 32839
IAN KINNEAR, P.E.
407-304-5560

GEOTECHNICAL
UNIVERSAL ENINEERING SCIENCES
3531 MAGGIE BLVD
ORLANDO, FLORIDA 32811
TIMOTHY D. TRIPLETT, P.E.
407-423-0504

BOUNDARY & SURVEY HLSM, LLC 794 BIG TREE DRIVE LONGWOOD, FLORIDA 32750 WILLIAM F. MENARD 407-647-7346

WATER AND SANITARY SEWER: CITY OF APOPKA PUBLIC SERVICES 748 EAST CLEVELAND STREET APOPKA, FLORIDA 32703 407-703-1731 SOLID WASTE SERVICE CITY OF APOPKA PUBLIC SERVICES 748 EAST CLEVELAND STREET APOPKA, FLORIDA 32703 407-703-1731

STORM WATER MANAGEMENT ST. JOHNS RIVER WMD 601 SOUTH LAKE DESTINY ROAD, SUITE 200 MAITLAND, FL 32751 407-659-4800

LANDSCAPE ARCHITECT R. MILLER ARCHITECTURE 125 S. SWOOPE AVENUE SUITE 105 MAITLAND, FLORIDA 32751 DAVID MILLER, ASLA 407-539-2412

ELECTRIC: DUKE ENERGY 2801 W S.R. 426 OVIEDO, FL 3276: 407-905-3321

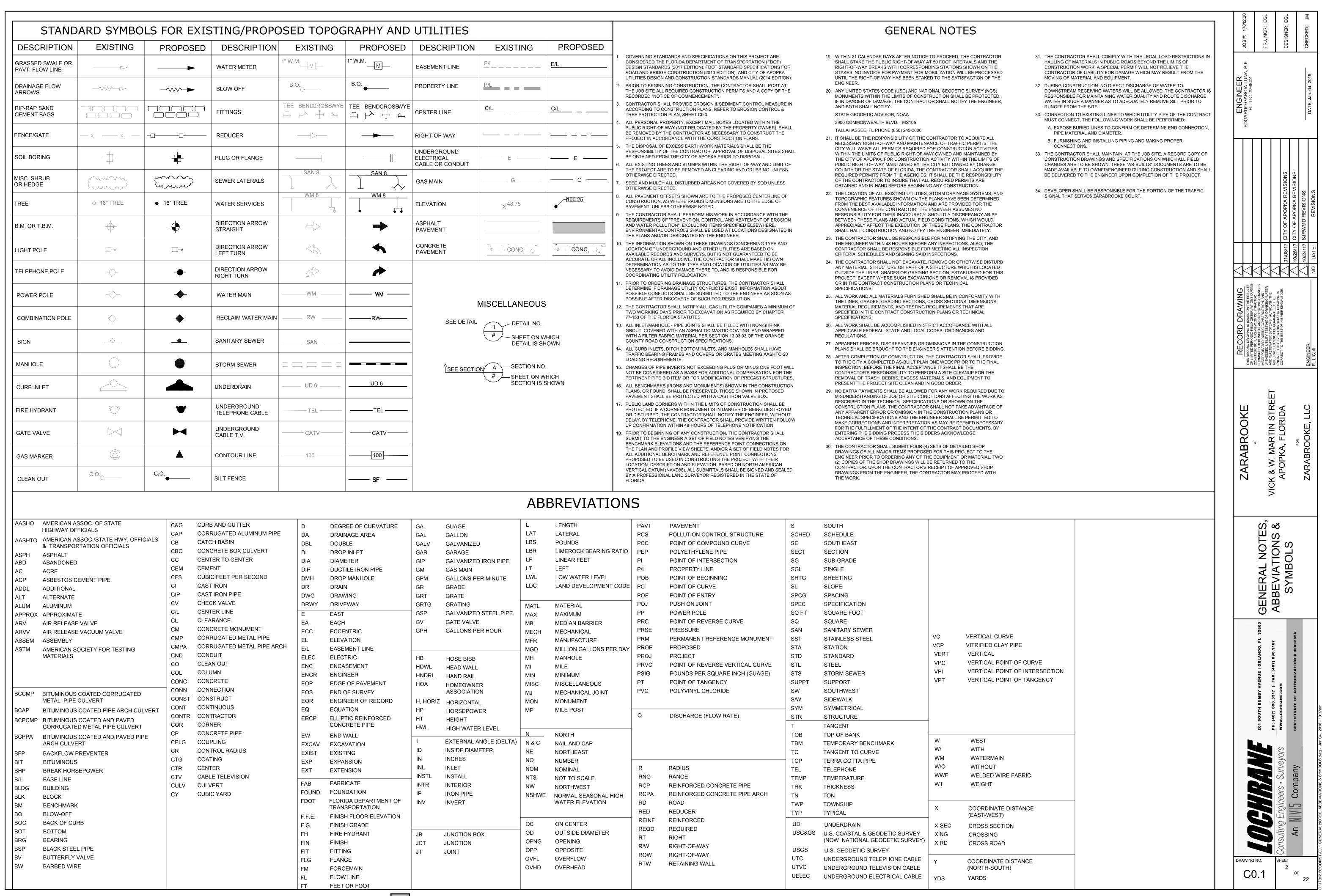
TELEPHONE: CENTURY LINK 952 1ST STREET ROOM 103 ALTAMONTE SPRINGS, FL 32701 407-624-0464

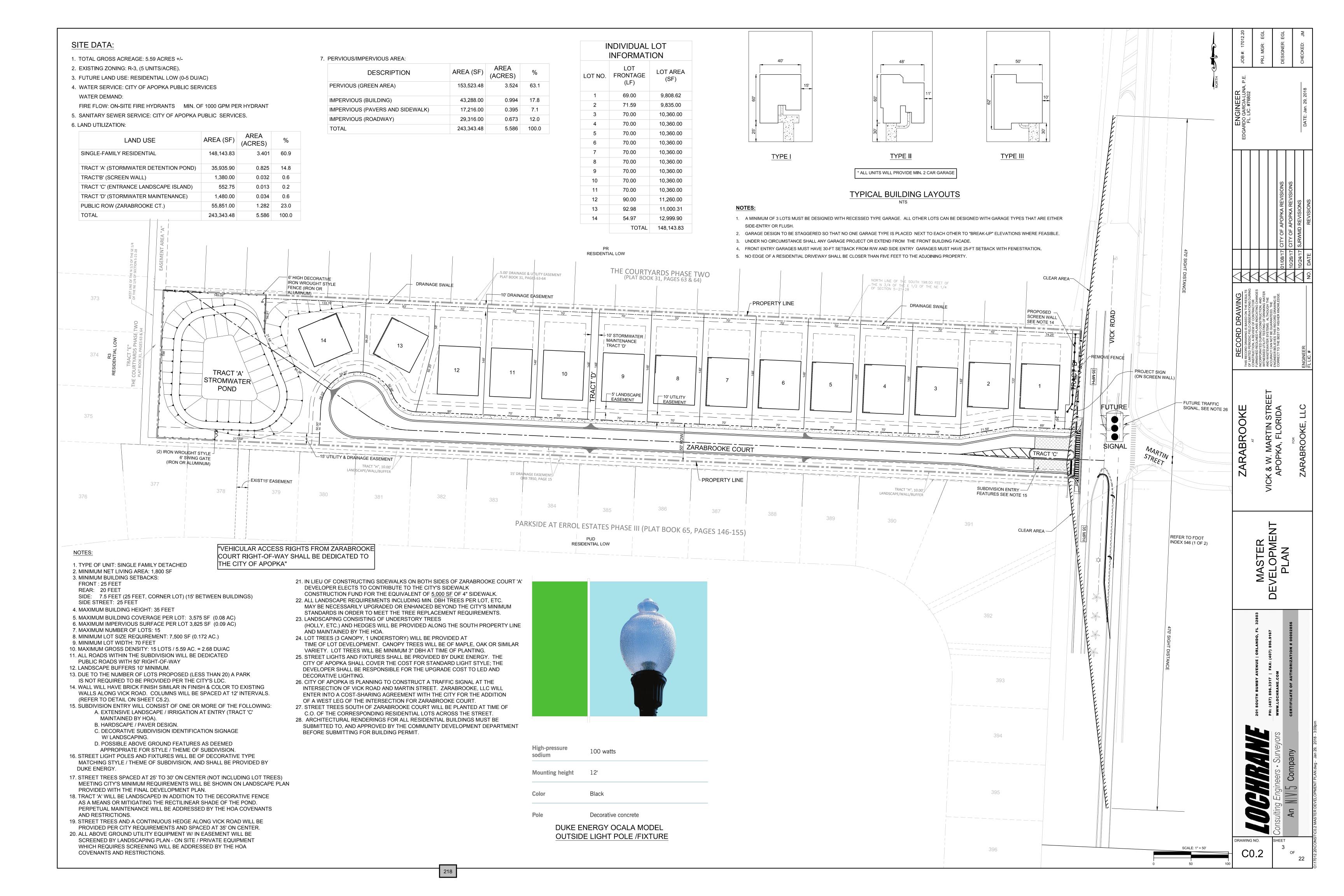
TELEVISION & INTERNET: CENTURY LINK 952 1ST STREET ROOM 103 ALTAMONTE SPRINGS, FL 32701 407-624-0464

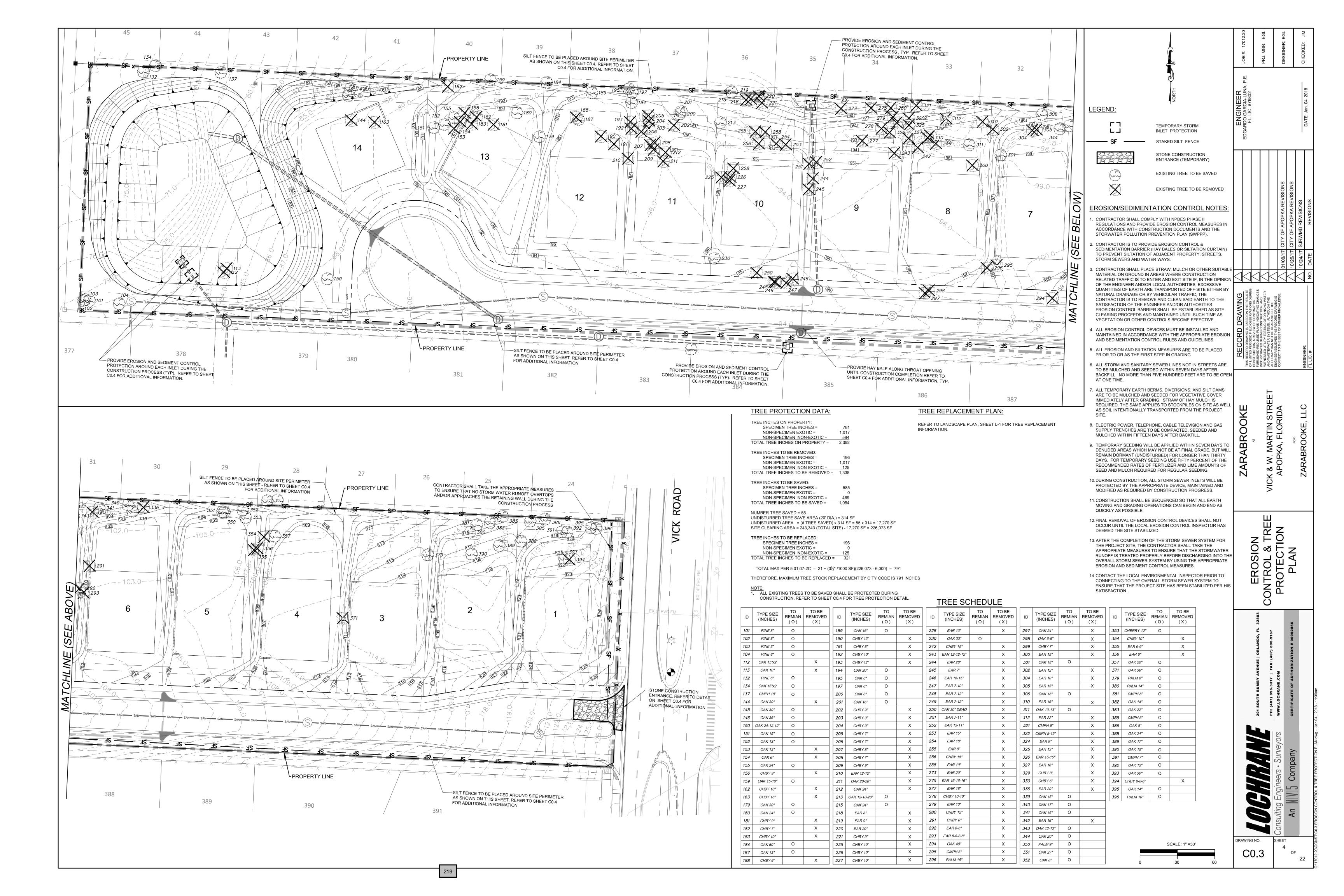
SHEET NO.	DWGNO	TITLE
1	C0.0	COVER SHEET
2	C0.1	GENERAL NOTES, ABBEVIATIONS & SYMBOLS
3	C0.2	MASTER DEVELOPMENT PLAN
4	C0.3	EROSION CONTROL & TREE PROTECTION PLAN
5	C0.4	EROSION CONTROL & TREE PROTECTION DETAILS
6	C0.5	DEMOLITION PLAN
7	C1.0	LAYOUT GEOMETRY PLAN
8	C1.1	PROJECT ENTRANCE & OFF-SITE TURN LANE IMPROVEMENTS
9	C2.0	GRADING AND DRAINAGE PLAN
10	C2.1	DETENTION POND PLAN, SECTIONS & DETAILS
11	C3.0	UTILITY PLAN
12	C4.1	PLAN & PROFILE
13	C4.2	PLAN & PROFILE
14	C5.1	PAVEMENT DETAILS
15	C5.2	SITE DETAILS
16	C5.3	UTILITY DETAILS
17	C5.4	UTILITY DETAILS
18	L-1	LANDSCAPE PLAN (PREPARED BY R. MILLER ARCHITECTURE)
19	L-2	IRRIGATION PLAN (PREPARED BY R. MILLER ARCHITECTURE)
20	1	BOUNDARY & TOPOGRAPHIC SURVEY (PREPARED BY HLSM, LLC
21	2	BOUNDARY & TOPOGRAPHIC SURVEY (PREPARED BY HLSM, LLC
22	1	PLAT (PREPARED BY HLSM, LLC)

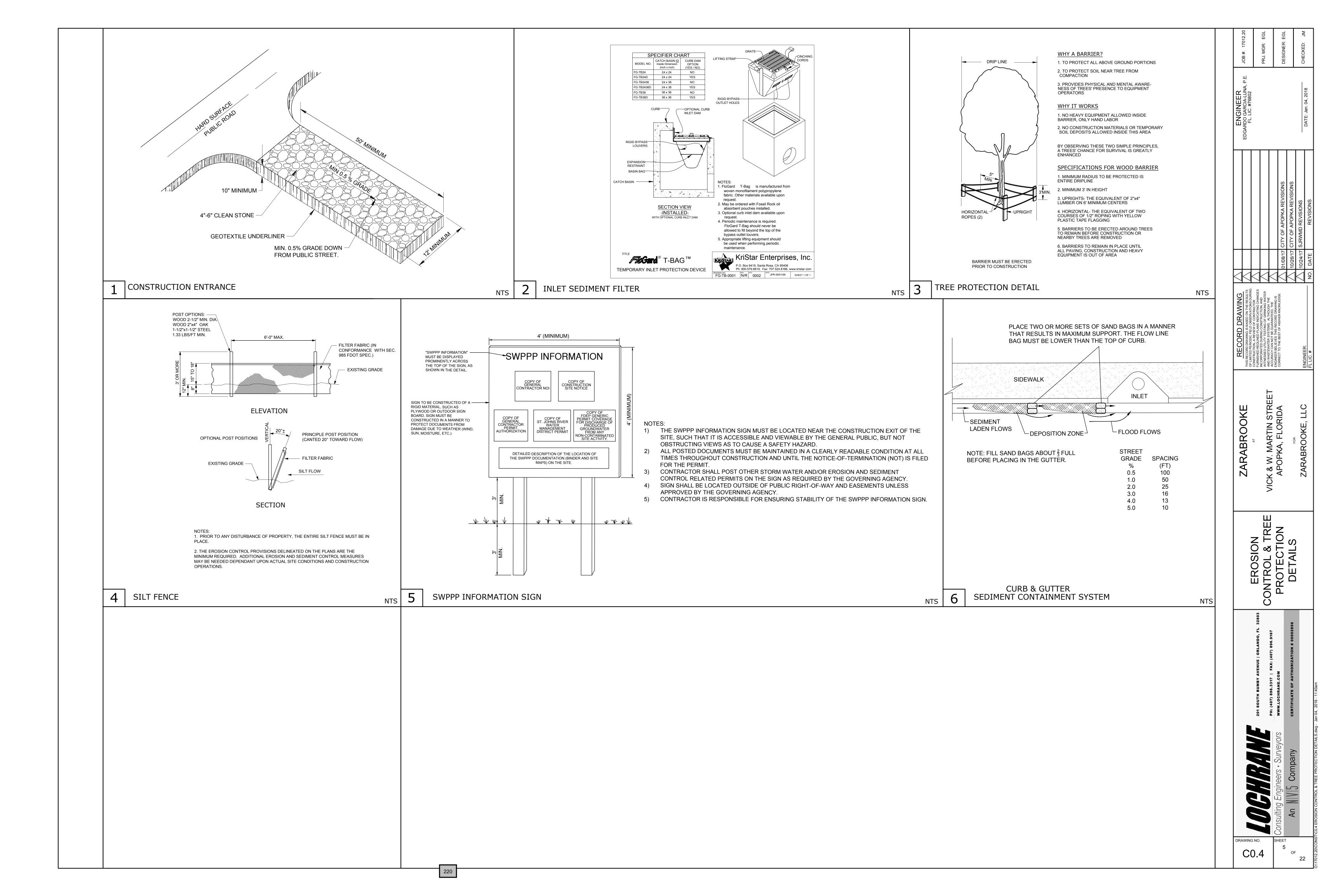
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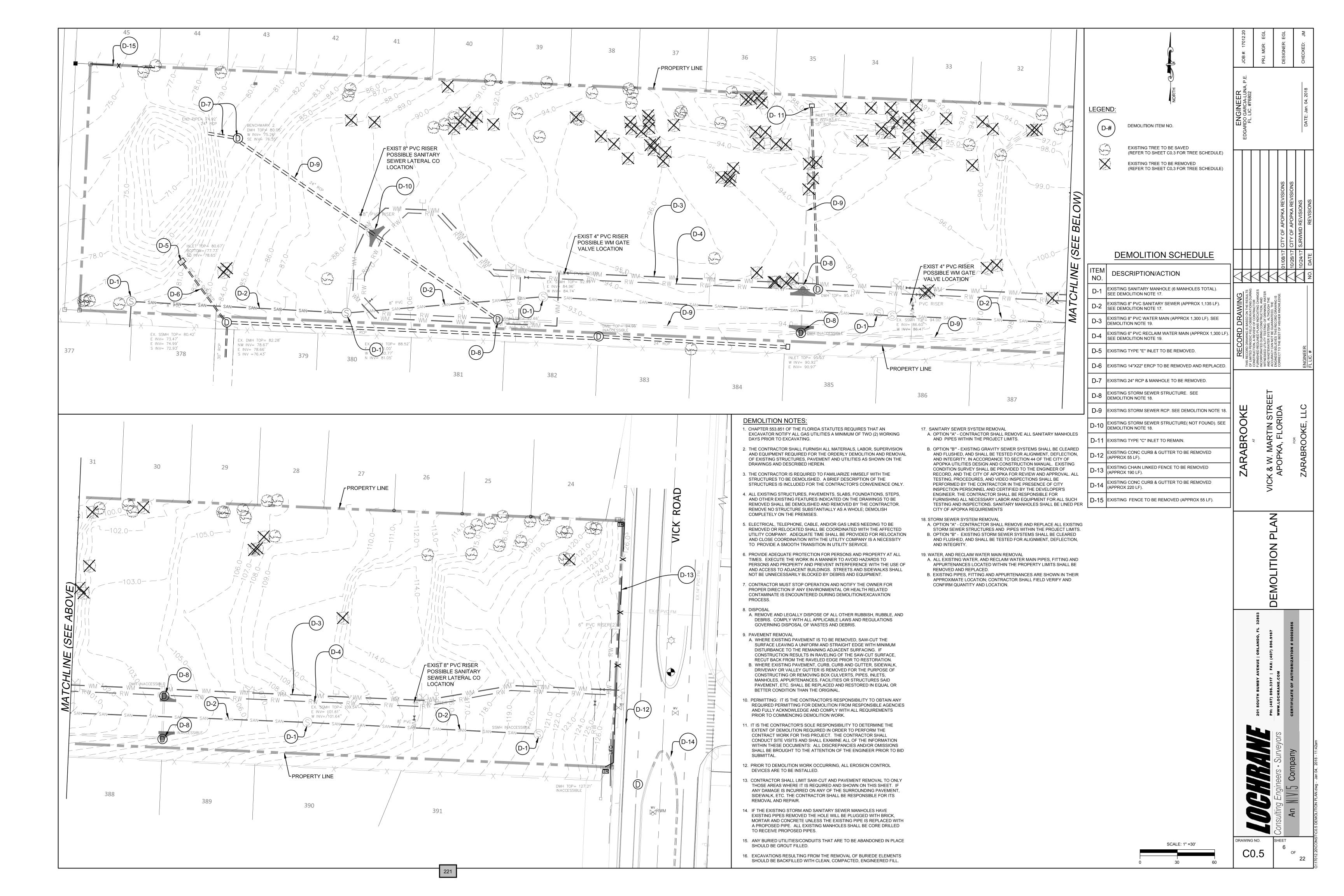
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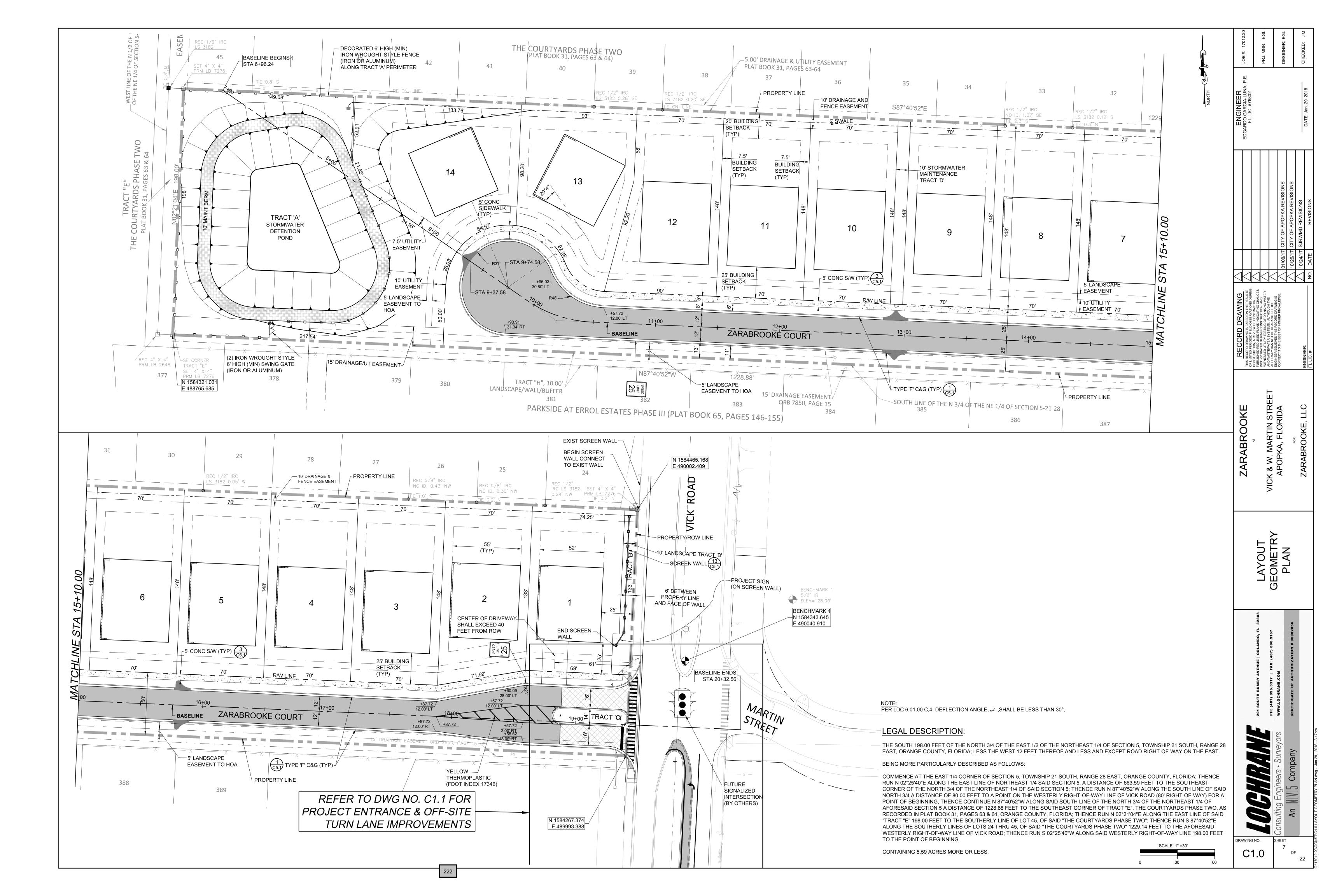


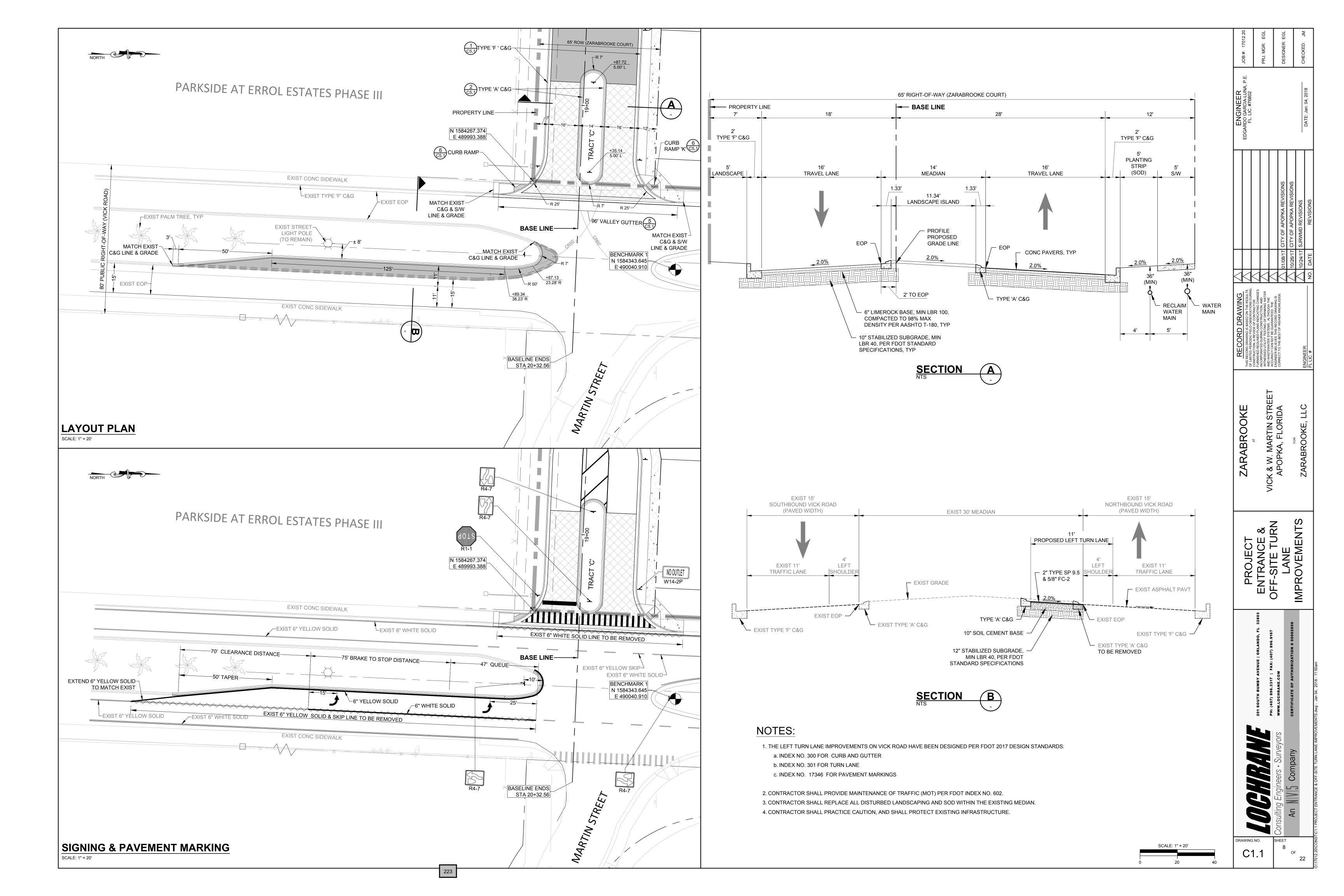


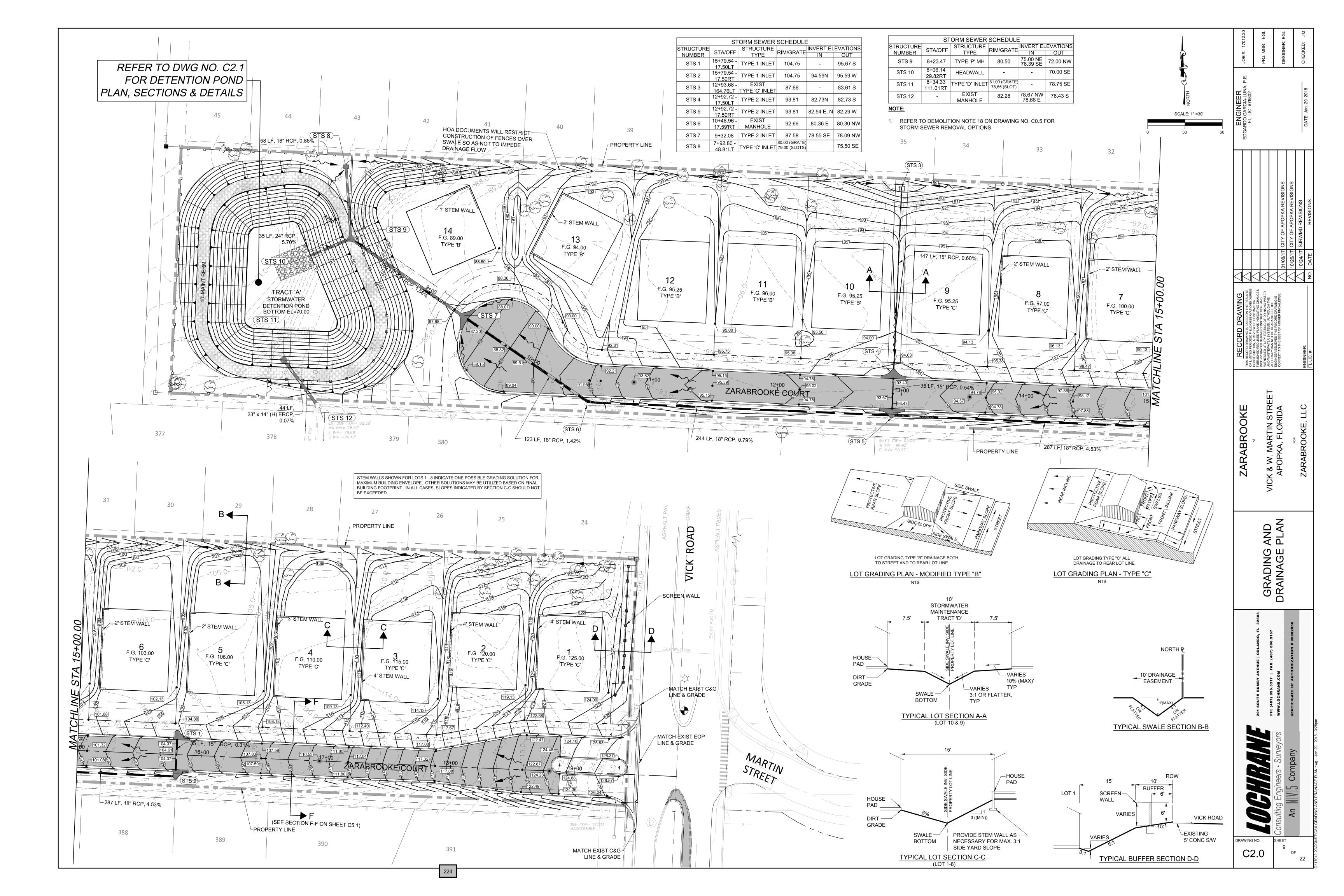


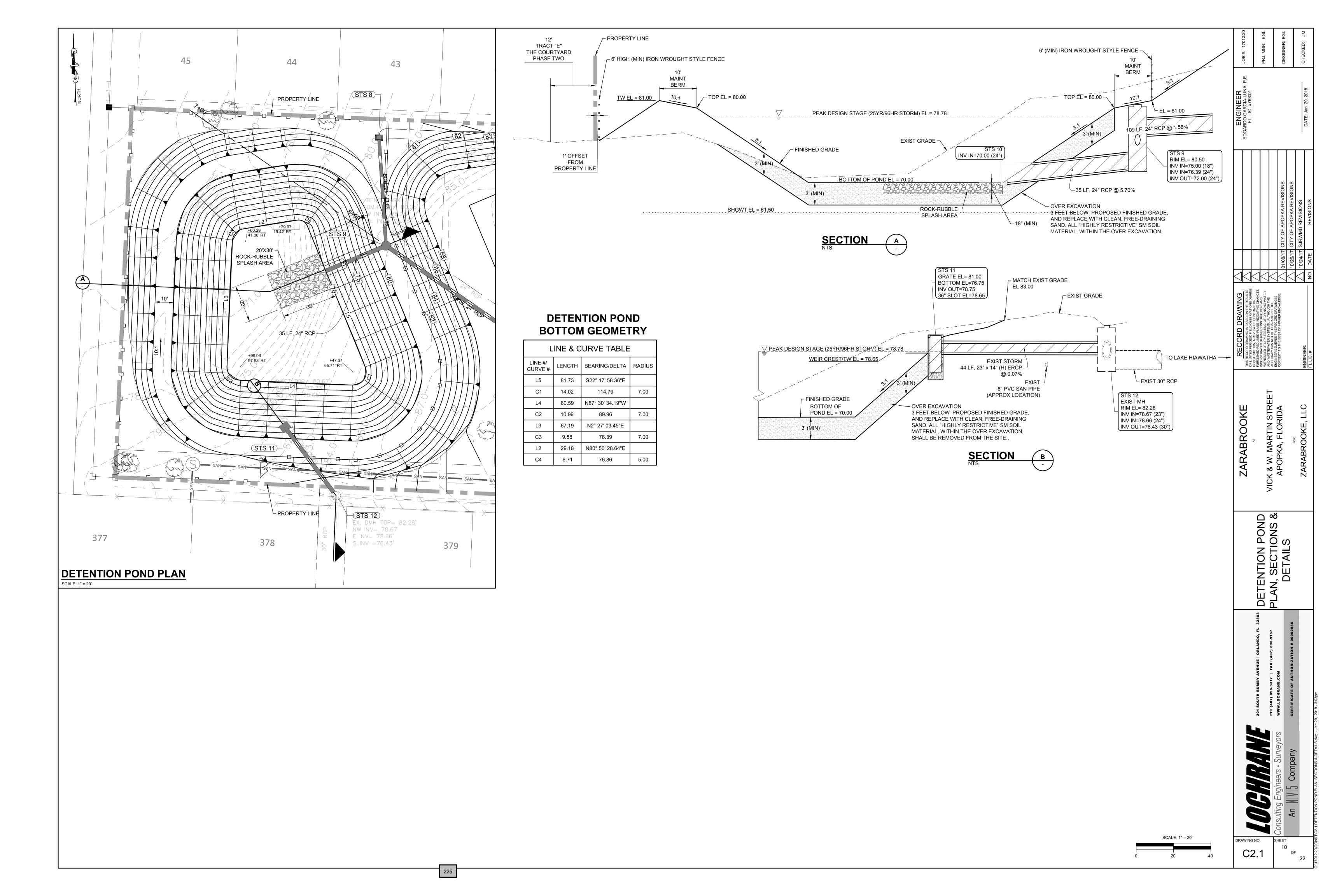


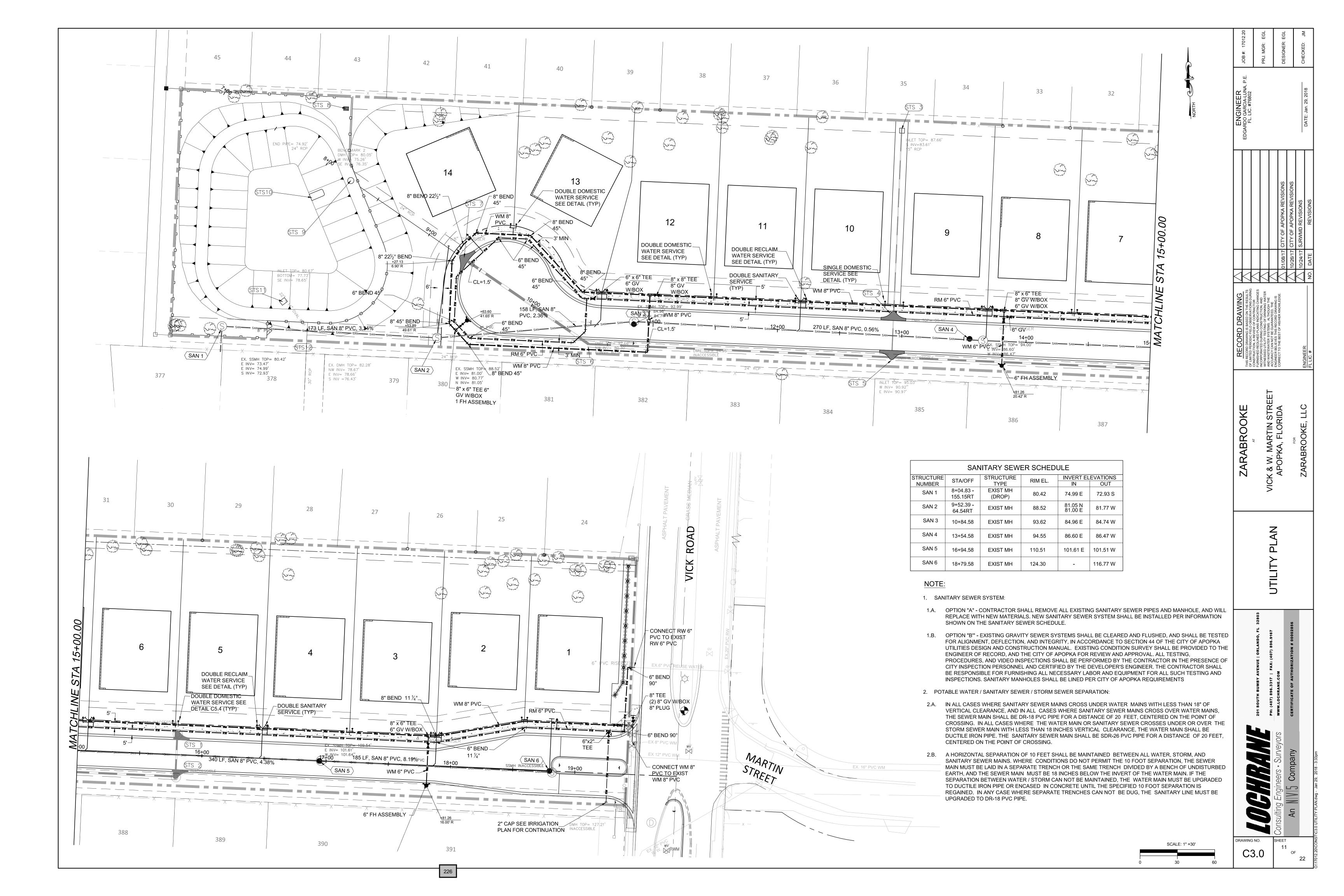


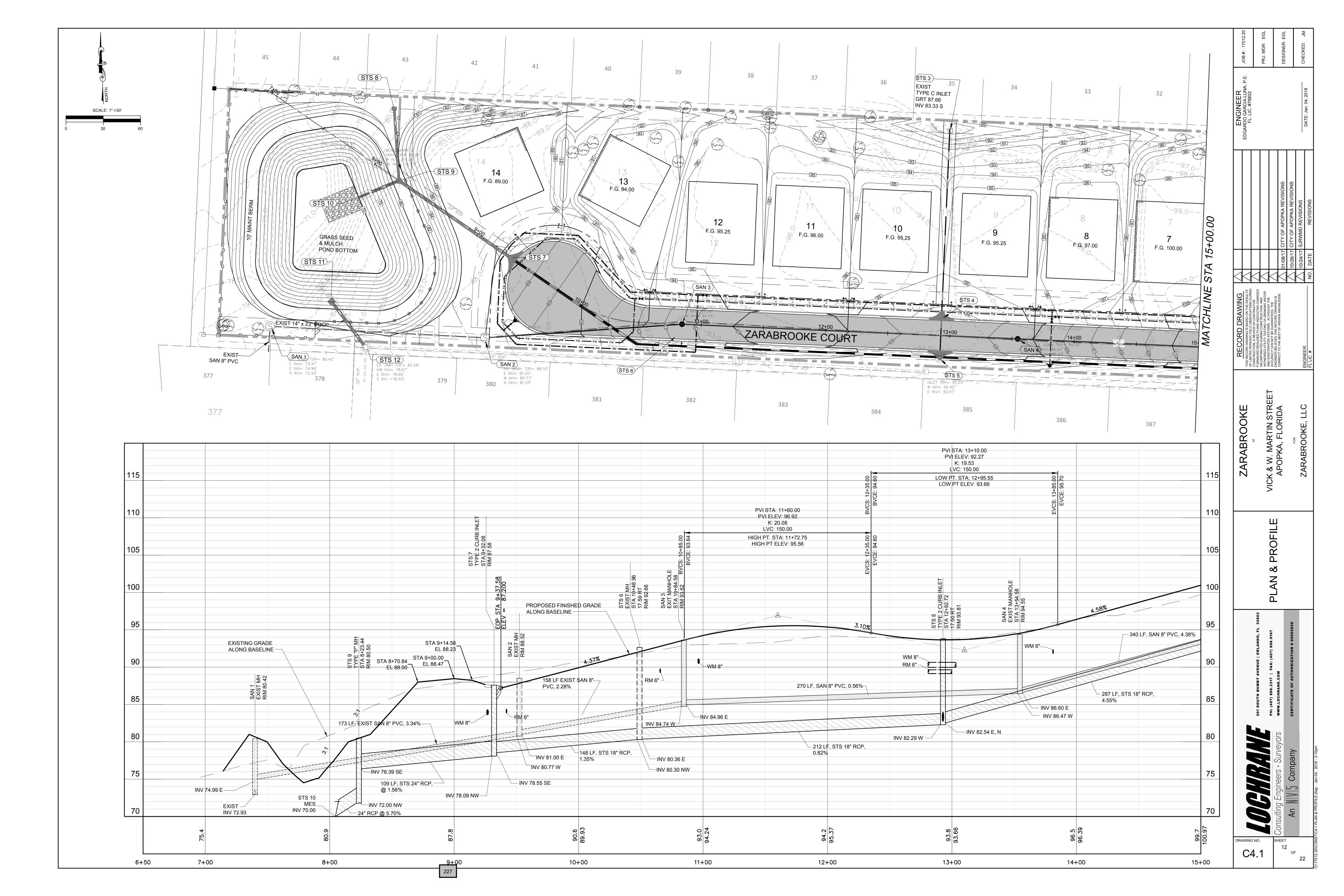


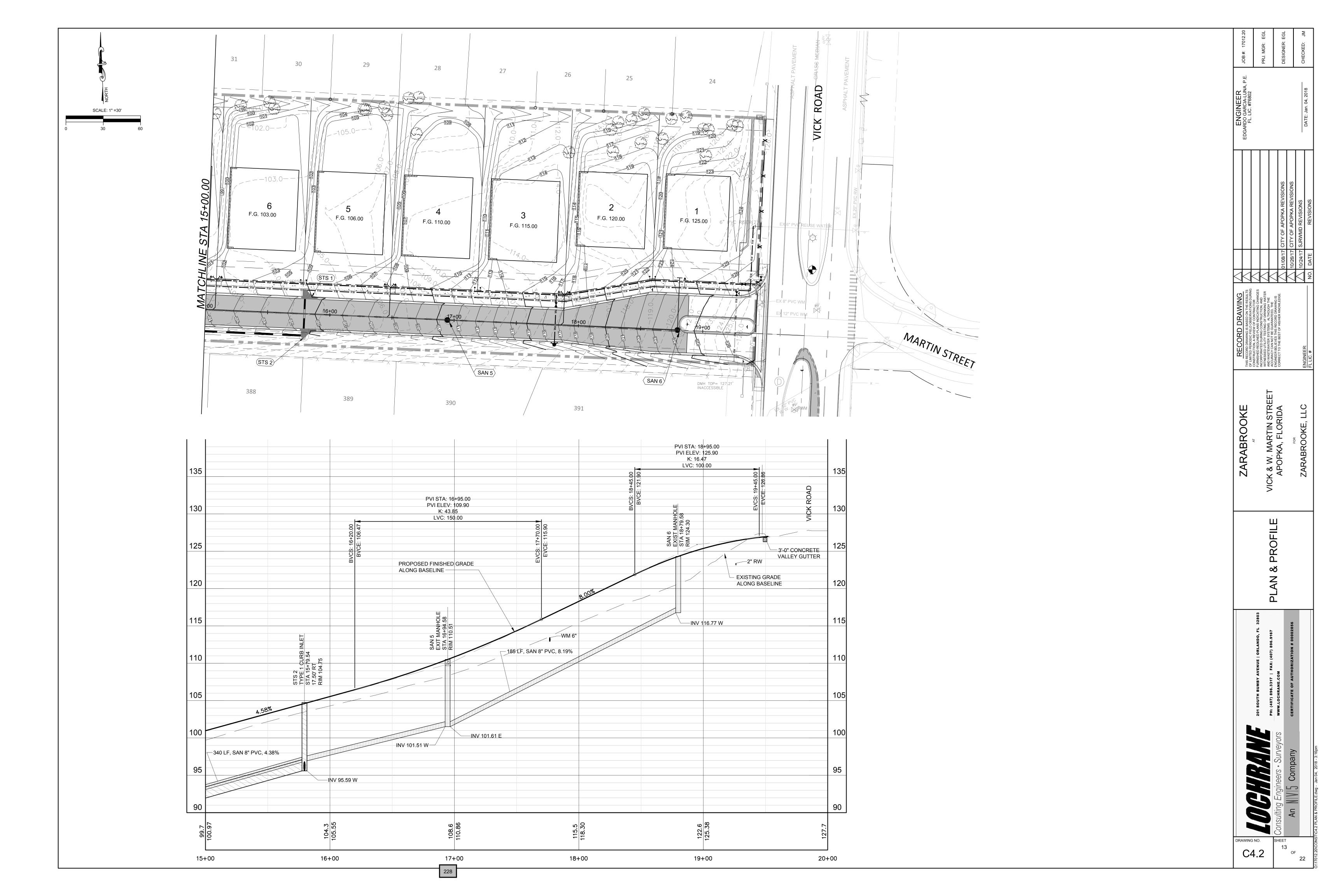


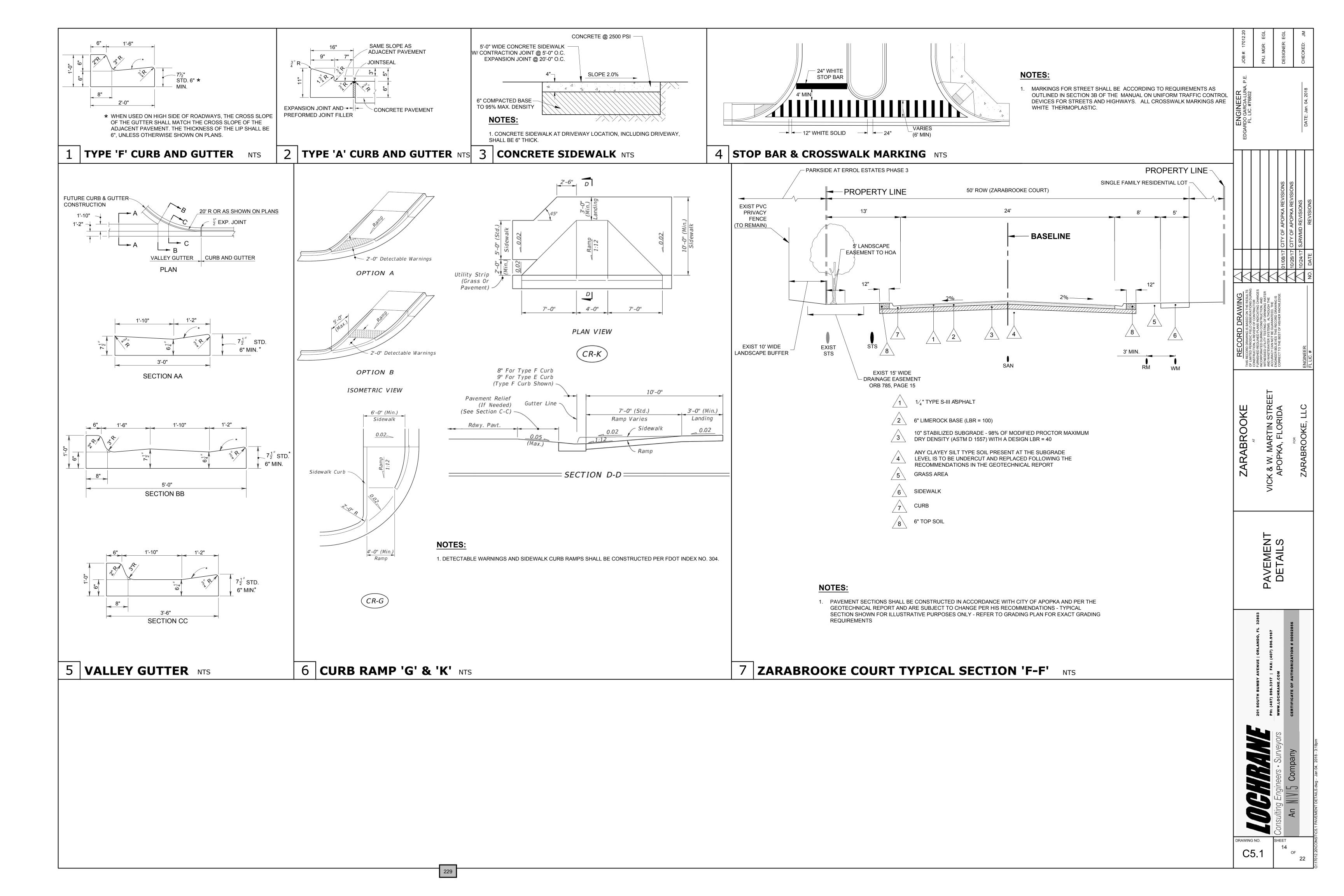


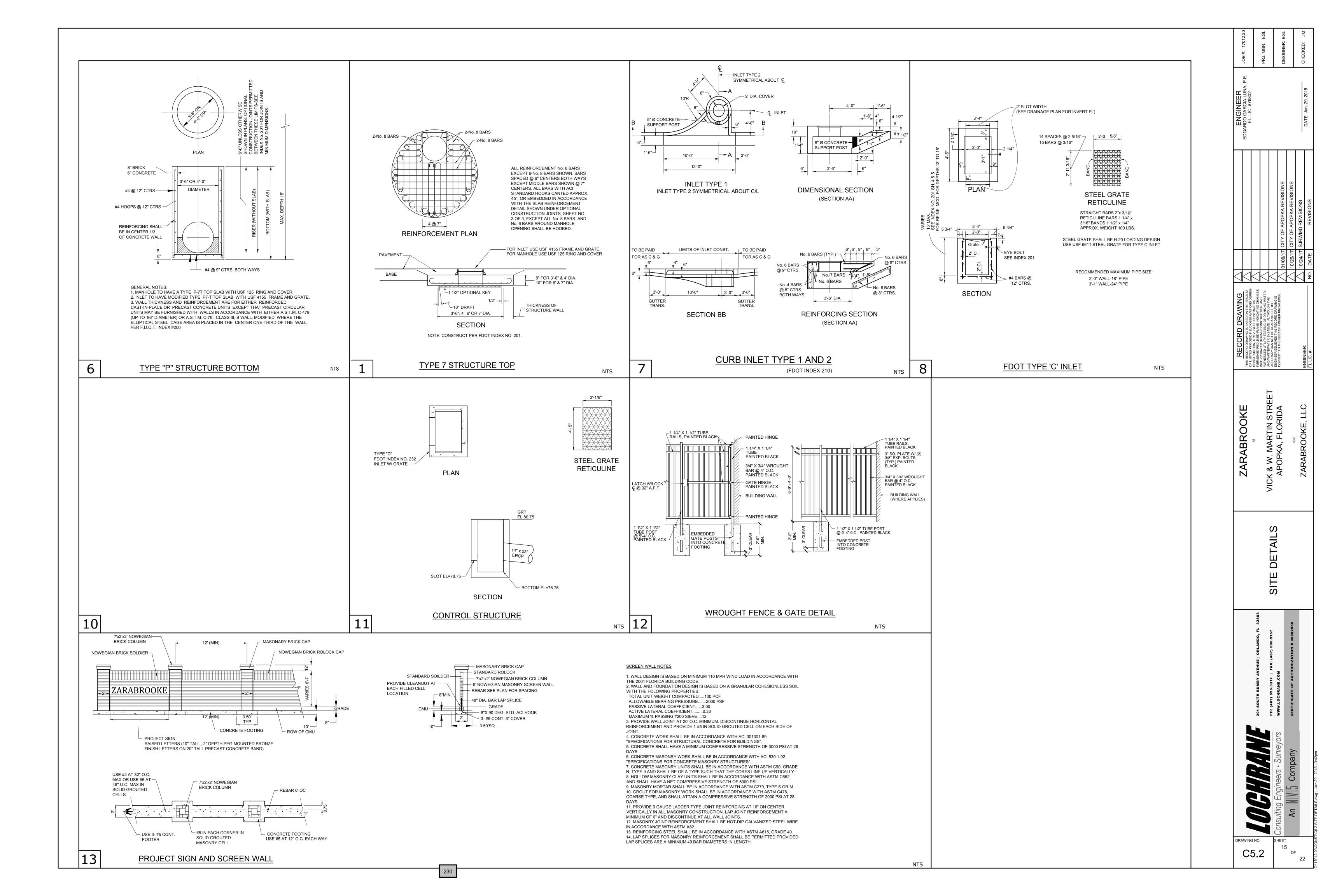


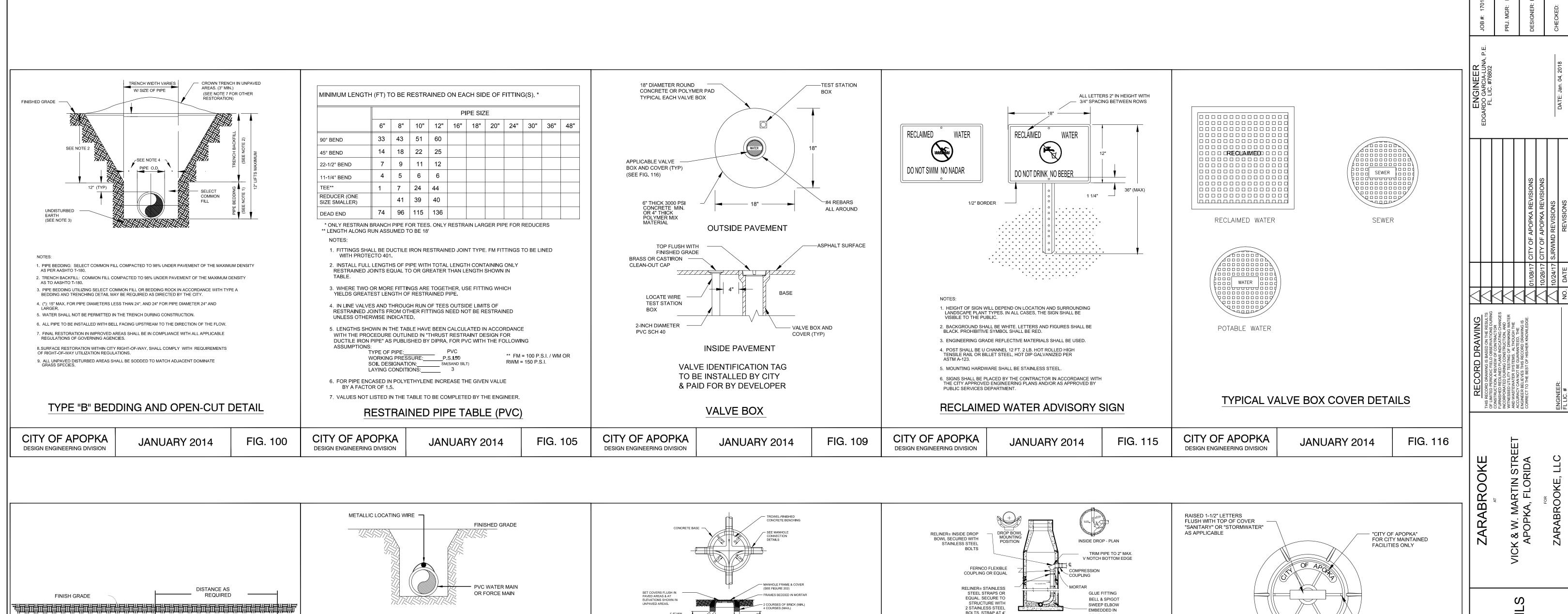


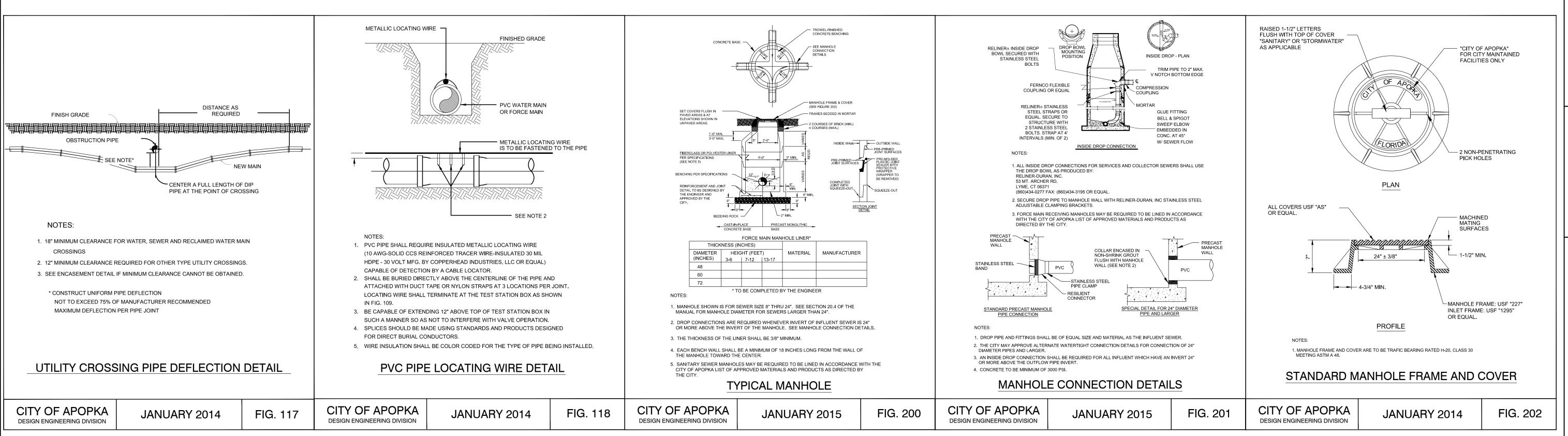












201 SOUTH BUMBY AVENUE | ORLANDO, FL. 32803

PH. (407) 896.3317 | FAX: (407) 896.9167

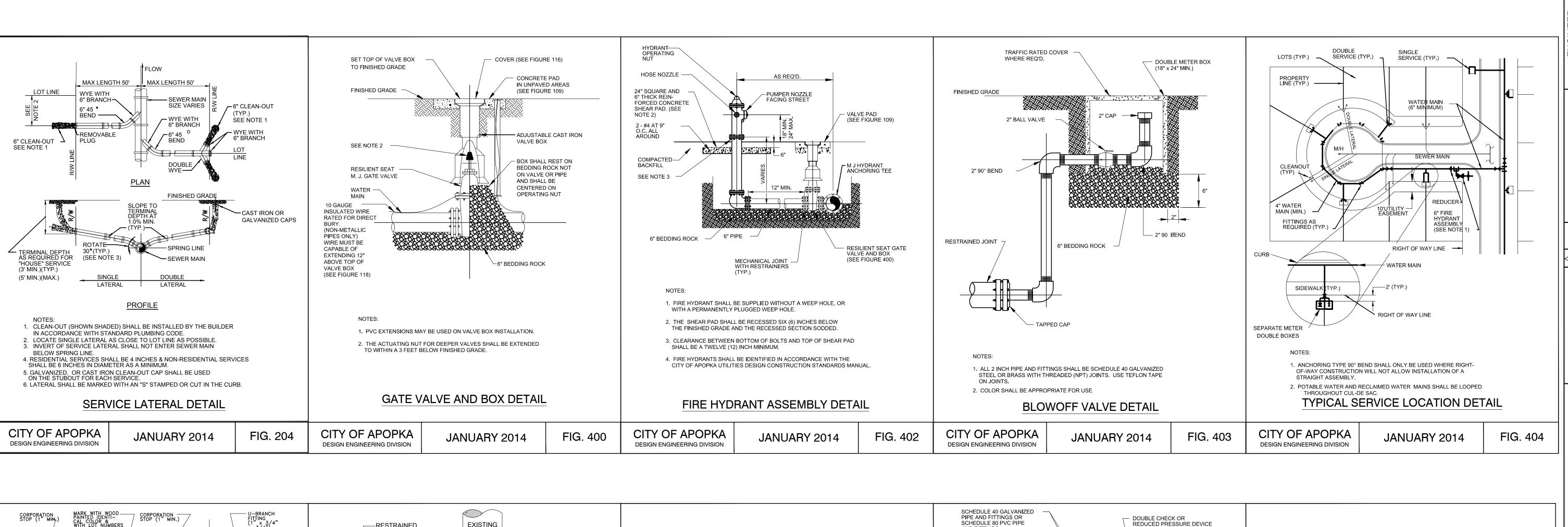
WWW.LOCHRANE.COM

AN NINTERPORTED CONTRIBUTION # 00002886

CERTIFICATE OF AUTHORIZATION # 00002886

CONTRIBUTION TO CONTRIBUTION TO CONTRIBUTION # 00002886

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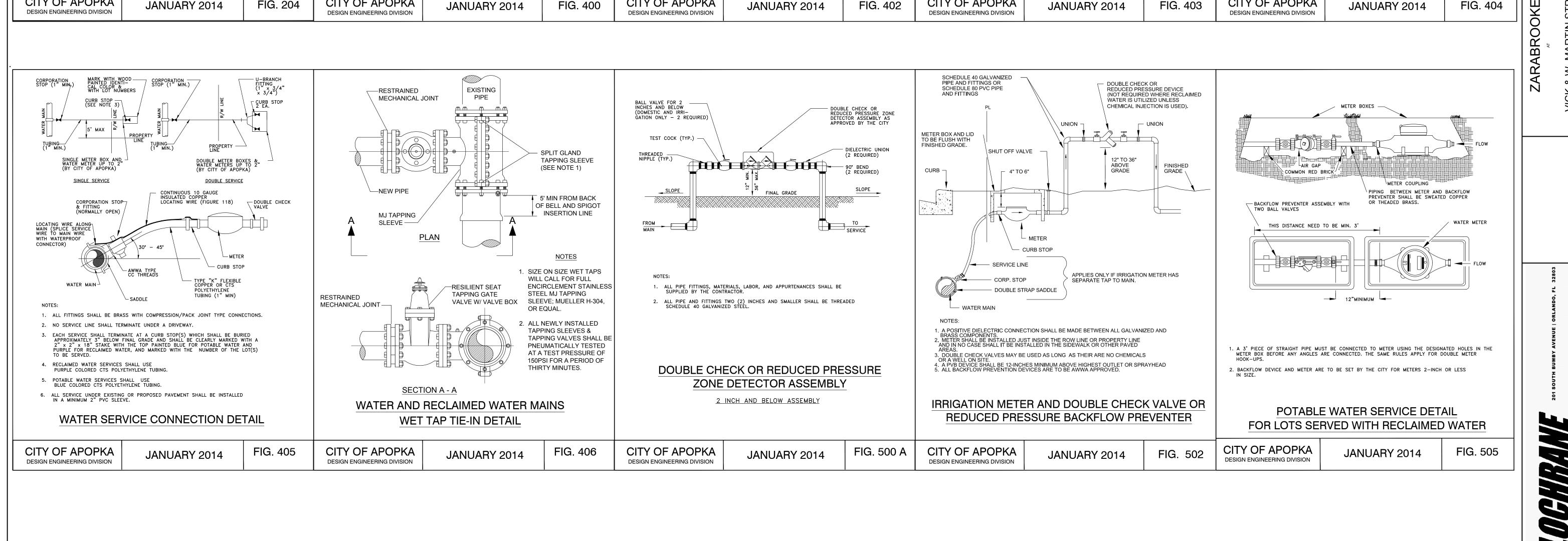


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ST

C5.4

22



 $\sim$ SOUTH LINE OF THE N 3/4 OF THE NE 1/4 OF SECTION 5-21-28

PERIMETER BUFFER = 1228.1

YARD LANDSÇAPE PER BUILDER

CANOPY TREES REQUIRED =1228.1/35=35.0=35

THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PROJECT SITE PRIOR TO BIDDING THE WORK. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND LOCATION OF PROPOSED IMPROVEMENTS PRIOR TO INITIATING ANY CONSTRUCTION.

WATER RETENTION AREA

11 UNDERSTORY TREES

17 CANOPY TREES

- 2. LOCATION OF ALL UTILITIES AND BASE INFORMATION IS APPROXIMATE. CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES AND OBSTRUCTIONS PRIOR TO INITIATING WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY DAMAGE TO EXISTING ELEMENTS ABOVE OR BELOW GROUND TO ITS ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE
- 3. THE OWNER'S REPRESENTATIVE SHALL HAVE THE RIGHT, AT ANY STAGE OF THE OPERATIONS, TO REJECT ANY AND ALL WORK AND MATERIAL WHICH, IN HIS OPINION, DO NOT MEET WITH THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS.
- ALL GRADES, DIMENSIONS, AND EXISTING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR ON-SITE BEFORE CONSTRUCTION BEGINS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB SITE PRIOR TO START OF
- CONSTRUCTION AND/OR FABRICATION. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THESE DRAWINGS. 6. REPORT ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND FIELD CONDITIONS TO
- 7. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFETY MEASURES DURING CONSTRUCTION OPERATIONS TO PROTECT THE PUBLIC ACCORDING TO ALL APPLICABLE CODES AND RECOGNIZED LOCAL PRACTICES
- 8. THE CONTRACTOR SHALL COORDINATE ACCESS AND STAGING AREAS WITH THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING EROSION AND SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION. PROVIDE ADDITIONAL MEASURES AS NECESSARY TO MINIMIZE ADVERSE IMPACTS IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL
- 9. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN CONSENT OF THE OWNER'S REPRESENTATIVE. DURING THE COURSE OF THIS WORK, EXCESS WASTE MATERIAL SHALL BE REMOVED DAILY FROM THE SITE.
- OTHER TRADES AND THE OWNER'S REPRESENTATIVE 11. THE CONTRACTOR SHALL NOTIFY ALL NECESSARY UTILITY COMPANIES 48 HRS MINIMUM PRIOR TO
- DIGGING FOR FIELD VERIFICATION OF ALL UNDERGROUND UTILITIES. 12. ALL EXISTING SITE ROADS, PARKING LOTS, CURBS, UTILITIES, SEWERS, AND OTHER ELEMENTS TO
- REMAIN SHALL BE FULLY PROTECTED FROM ANY DAMAGE UNLESS OTHERWISE NOTED.

### LANDSCAPE NOTES

- 1. THE CONTRACTOR SHALL REVIEW ARCHITECTURE/ENGINEERING PLANS TO BECOME THOROUGHLY FAMILIAR WITH SURFACE AND SUBSURFACE UTILITIES.
- 2. THE PLANT QUANTITIES SHOWN ON THE LANDSCAPE CONTRACT DOCUMENTS ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES AND REPORTING ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT FOR CLARIFICATION PRIOR TO CONTRACT AWARD AND COMMENCEMENT OF WORK.
- 3. ALL INSTALLATION OF PLANT MATERIAL SHALL COMPLY WITH APPLICABLE JURISDICTIONAL CODES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS ASSOCIATED WITH THIS WORK.
- PRIOR TO PLANTING INSTALLATION, THE CONTRACTOR SHALL CONFIRM THE AVAILABILITY OF ALL THE SPECIFIED PLANT MATERIALS. SUBMIT DATED PHOTOGRAPHS OF TREE MATERIAL AND SPECIMEN PLANT MATERIAL TO THE OWNER'S REPRESENTATIVE FOR REVIEW.
- 5. ALL PLANT MATERIAL SIZES SPECIFIED ARE MINIMUM SIZES. CONTAINER SIZE SHALL BE INCREASED IF NECESSARY TO PROVIDE OVERALL PLANT SIZE SPECIFIED.
- 6. IF PLANT MATERIAL DOES NOT COMPLY WITH THE REQUIREMENTS AS SPECIFIED HEREIN, THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT SUCH PLANTS AND REQUIRE THE CONTRACTOR TO REPLACE REJECTED WORK AND CONTINUE SPECIFIED MAINTENANCE UNTIL REINSPECTED AND FOUND TO BE ACCEPTABLE.
- THE CONTRACTOR SHALL TEST THE PROJECT SOILS TO VERIFY THAT THE SOILS ON-SITE ARE ACCEPTABLE FOR PROPER GROWTH OF PLANT MATERIALS AND ADEQUATE DRAINAGE IN PLANT BEDS AND PLANTERS. THE CONTRACTOR SHALL COORDINATE THE LOCATION AND PROCUREMENT OF EXISTING ON-SITE SOIL SAMPLES WITH THE OWNER'S REPRESENTATIVE. REPRESENTATIVE SAMPLES SHALL BE SUBMITTED TO A CERTIFIED TESTING LABORATORY FOR ANALYSIS. THE FINDINGS, TOGETHER WITH RECOMMENDATIONS FOR AMENDING THE SOILS SHALL BE REVIEWED AND APPROVED BY THE OWNER'S REPRESENTATIVE AND PRIOR TO DELIVERY AND INSTALLATION OF
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STABILITY AND PLUMB CONDITION OF ALL TREES AND SHRUBS, AND SHALL BE LEGALLY LIABLE FOR ANY DAMAGE CAUSED BY INSTABILITY OF ANY PLANT MATERIALS. STAKING OF TREES OR SHRUBS SHALL BE DONE IN ACCORDANCE WITH PLANS AND
- 9. THE CONTRACTOR SHALL INSURE ADEQUATE VERTICAL DRAINAGE IN ALL PLANT BEDS AND PLANTERS, IF INADEQUATE VERTICAL DRAINAGE IS ENCOUNTERED, THE CONTRACTOR SHALL SUBMIT RECOMMENDATIONS FOR PROVIDING ADEQUATE DRAINAGE TO THE OWNER'S REPRESENTATIVE.
- 10. PEG SOD ON SLOPES GREATER THAN 3:1. 11. THE CONTRACTOR SHALL BEAR ALL COSTS OF TESTING OF SOILS, AMENDMENTS, ETC. ASSOCIATED
- 12. CONTRACTOR SHALL FIELD-ADJUST LOCATION OF PLANT MATERIAL PRIOR TO INITIATING INSTALLATION FOR THE REVIEW AND APPROVAL OF THE OWNER'S REPRESENTATIVE. 13. ALL PLANT MATERIAL SHALL BE IN FULL AND STRICT ACCORDANCE WITH FLORIDA NO. 1 GRADE,
- ACCORDING TO THE "GRADES AND STANDARDS FOR NURSERY PLANTS" PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. 14. ALL PLANTING BEDS SHALL BE TOP-DRESSED WITH A 1" LAYER OF MULCH AS SPECIFIED. ALL TREES

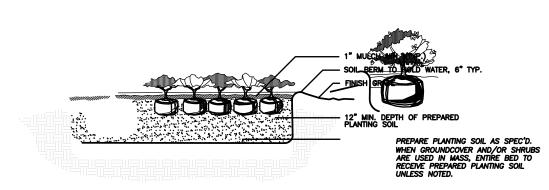
SHALL HAVE NO MORE THAN 1" THICK, 24" RADIUS (FROM THE TRUNK) MULCH RING PLACED ON TOP

- OF THE ROOT BALL. 15. SHRUB AND GROUND COVER BED QUANTITIES ARE INDICATED ON THE PLANT LIST. PLANT ACCENT SHRUBS AND TREES AS SHOWN ON THE LANDSCAPE PLANTING PLANS WHEN INDIVIDUAL PLANTS ARE
- 16. PALM HEIGHTS, IF INDICATED ON THE PLANS, REFER TO CLEAR TRUNK (C.T.), GRAY WOOD (G.W.), OR OVERALL HEIGHT (O.A.) AS SPECIFIED ON THE PLANT LIST.
- 17. CONTRACTOR SHALL COORDINATE ALL PLANTING WORK WITH IRRIGATION WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HAND WATERING AS REQUIRED TO SUPPLEMENT IRRIGATION
- 18. CONTRACTOR SHALL BE RESPONSIBLE FOR HAND WATERING IN ALL PLANTING AREAS, REGARDLESS OF THE STATUS OF EXISTING OR PROPOSED IRRIGATION. 19. CONTRACTOR SHALL REGRADE ALL AREAS DISTURBED BY PLANT REMOVAL, RELOCATION, AND/OR
- INSTALLATION WORK. 20. MAINTENANCE SHALL BEGIN AFTER EACH PLANT HAS BEEN INSTALLED AND SHALL CONTINUE UNTIL THE DATE OF SUBSTANTIAL COMPLETION, MAINTENANCE INCLUDES WATERING, PRUNING, WEEDING,
- MULCHING, REPLACEMENTS OF SICK OR DEAD PLANTS, AND ANY OTHER CARE NECESSARY FOR THE PROPER GROWTH OF THE PLANT MATERIAL

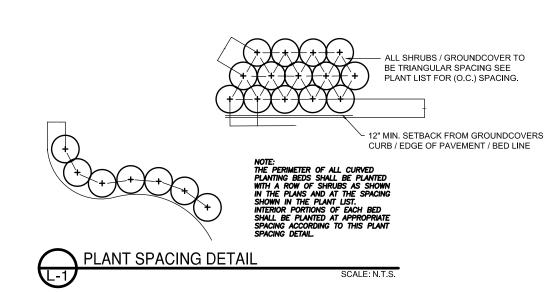
- 21. UPON COMPLETION OF ALL LANDSCAPING, AN INSPECTION FOR SUBSTANTIAL COMPLETION OF THE WORK SHALL BE HELD. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR SCHEDULING THE INSPECTION AT LEAST SEVEN (7) DAYS PRIOR TO THE ANTICIPATED INSPECTION
- 22. CONTRACTOR SHALL SUBMIT WRITTEN GUARANTEE OF SURVIVABILITY OF ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION. 23. CONTRACTOR MUST APPROVE ALL GRADED AREAS PRIOR TO THE COMMENCEMENT OF PLANTING.
- 24. THE CONTRACTOR SHALL ENGAGE A QUALIFIED ARBORIST WHO HAS SUCCESSFULLY COMPLETED TREE PROTECTION AND TREE TRIMMING WITH FIVE YEARS OR MORE EXPERIENCE, TO PERFORM THE
- A. CONTRACTOR SHALL PROTECT EXISTING VEGETATION TO REMAIN AS SHOWN ON DRAWINGS OR BY MEANS APPROVED BY THE OWNER'S REPRESENTATIVE.
- B. CONTRACTOR TO CLEAN, PRUNE, AND SHAPE EDGES OF EXISTING VEGETATION AS DIRECTED BY OWNER'S REPRESENTATIVE. CREATE SMOOTH BED LINES AROUND EXISTING VEGETATION.
- C. PERFORM INITIAL PRUNING OF BRANCHES AND STIMULATION OF ROOT GROWTH WHERE REMOVED TO ACCOMMODATE NEW CONSTRUCTION.

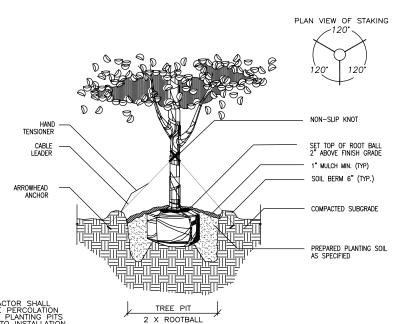
MATERIAL DISTURBED OR DAMAGED BY PLANT REMOVAL, RELOCATION, AND/OR INSTALLATION

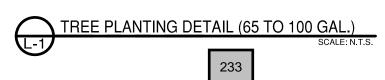
- D. PERFORM TREE REPAIR WORK FOR DAMAGE INCURRED BY NEW CONSTRUCTION. E. CONTRACTOR SHALL REPLACE (BY EQUAL SIZE AND QUALITY) ANY AND ALL EXISTING PLANT
- F. IF TREES ARE RELOCATED, CONTRACTOR SHALL PROVIDE TEMPORARY IRRIGATION SYSTEM.



ZARABROOKE COURT









TREE REPLACEMENT PLAN:

TOTAL SITE SAVED =

REPLACEMENT INCHES = 160 X 3" = 480"

TOTAL INCHES POST DEVELOPMENT 1,534"

1. THE FINAL LANDSCAPE PLAN MAY VARY IN THE

DISTRIBUTION OF TREE TYPE, DBH, OR SPECIES

2. THE DEVELOPER REQUESTS THE 9" OF REQUIRED

MISSING REPLACEMENT TREES, BE WAIVED BY THE

NUMBER OF TREES PRESERVED ON SITE AND THE

CITY IF THE CITY DETERMINES THAT THE REMAINING

PROPOSED 780" OF NEW CALIPER ARE OF SUFFICIENT

NUMBER AND QUALITY TO SUBSTANTIALLY COMPLY

TREES LOCATED ON LOTS AND ALONG ZARABROOKE

CT WILL BE PLANTED BY THE BUILDER AND INSTALLED

WITH THE PURPOSE AND INTENT OF THE CODE.

3. ALL TREES LOCATED IN THE ENTRY AND RETENTION

AREA WILL BE PLANTED BY THE DEVELOPER. ALL

PRIOR TO CERTIFICATE OF OCCUPANCY OF THE

BUT THE TOTAL INCHES PROPOSED MUST BE

TOTAL SITE NEW

PROVIDED.

RESIDENCE.

= 107 CANOPY, 53 UNDERSTORY

1,054"

LANDSCAPE PLAN Scale: 1"=50"

'See "Entr**≭**Wall Perspective" below

ZARABROOKE

# ENTRY WALL PERSPECTIVE

**Botanical Name** 

PLANT SCHEDULE

Quan. Common Name 35 Shumard Oak 71 Live Oak

Magnolia Dahoon holly Wax Myrtle Indian Hawthorn 460 Viburnum 36

Lorepetalum 350 Dwarf Confederate Jasmine Sod & Mulch

TBD Pine bark

Bahiagrass

Paspalum Notatum 'Argentine'

Quercus shumardii 3" Caliper DBH; 12' Height 3" Caliper DBH; 12' Height Quercus virginiana 3" Caliper DBH; 12' Height As Shown Magnolia grandiflora 3" Caliper DBH; 10' Height llex cassine Myrica cerifera Raphiolipes indica Viburnum odoratissimum

Loropetalum chinensis Trachleospermum asiaticum

3 Gallon; 15-18" x 15-18" 1 Gallon; 9-12" spread

3" Caliper DBH; 10' Height As Shown As Shown 3 Gallon; 15-18" x 15-18" 3 Gallon; 30" Height

As Shown 24" on Center

24" on Center

Spacing

As Shown

As Shown

As Shown

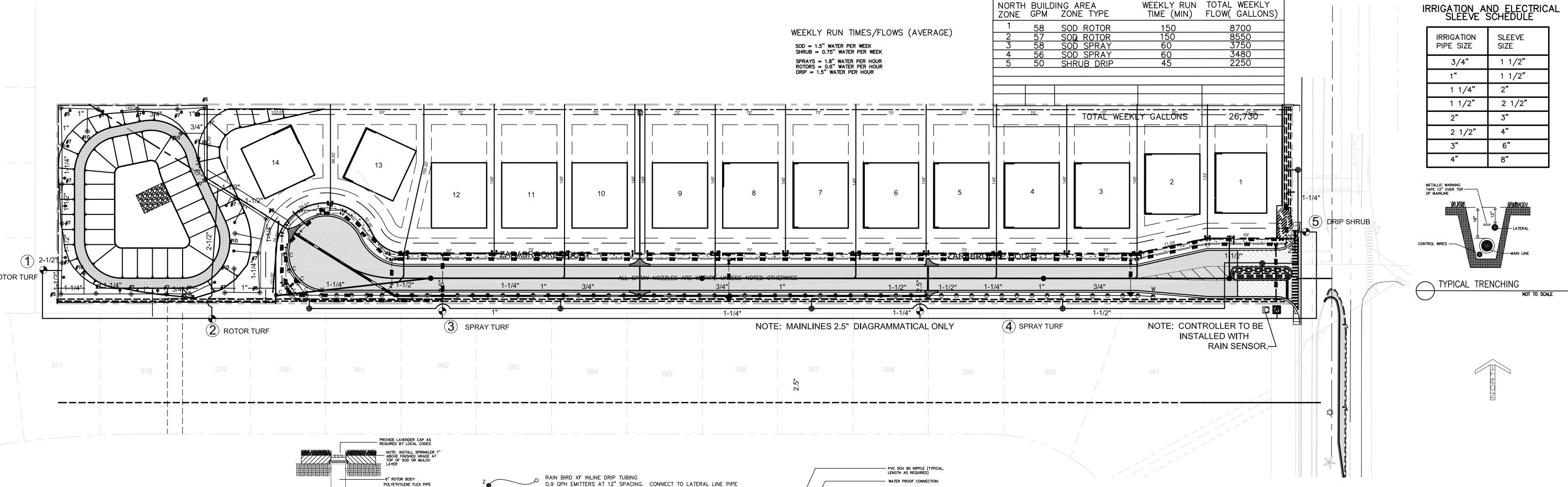
3" thick in all planting beds

IF THIS SHEET IS LESS THAN 24" X 36" IT IS A REDUCED DRAWING

R. Miller Architee

NORTH)

RAWN BY: HECKED BY: LANDSCAPE PLAN CALE: AS NOTED



1" CONTROL ZONE KIT

EXHAUST HEADER (PVC)

### IRRIGATION NOTES

1.) SOME PIPE LINES ARE DRAWN OFF SET FOR CLARITY. INSTALL ALL IRRIGATION LINES IN LANDSCAPED AREAS. 2.) REFER TO THE LANDSCAPE PLANS WHEN TRENCHING TO AVOID TREE ROOT BÁLLS AND TO INSTALL HEADS AT APPROPRIATE LOCATIONS.

REDUCED PRESSURE BACKFLOW PREVENTER

3.) ADJUST ALL NOZZLES TO REDUCE OVERTHROW ON PAVING & WALLS. THROTTLE ALL IRRIGATION CONTROL VALVES AS REQUIRED TO PREVENT FOGGING. SET CONTROLLER RUN TIMES TO MATCH PLANT WATER NEEDS AND SOIL CONDITIONS.

5.) INSTALL POP-UP HEADS 24" FROM WALLS, 6" FROM WALKS, DECKS AND CURBS, 6 FEET FROM CURBLESS ROADS, AND 30" FROM THE END OF PARKING SPACES. PROVIDE LAVENDER CAPS AS REQUIRED.

6.) SET TOP OF POP-UP HEAD CAPS 1" ABOVE FINISHED GRADE PRIOR TO SÓD OR MULCH INSTALLATION. 7.) REFER TO UTILITY PLANS PRIOR TO TRENCHING. THE IRRIGATION INSTALLER

SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO UTILITIES CAUSED BY THEIR WORK DURING THE PROJECT.

8.) ALL WORK SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE AGAINST ALL DEFECTS IN EQUIPMENT AND WORKMANSHIP.

9.) ELECTRIC POWER SUPPLY FOR THE IRRIGATION CONTROLLER SHALL BE BROUGHT TO A JUNCTION BOX AT THE CONTROLLER LOCATION BY THE ELECTRICAL CONTRACTOR. IRRIGATION INSTALLER TO PROVIDE ELECTRICAL PERMITS AND LICENSED ELECTRICIAN TO CONNECT THE IRRIGATION CONTROLLER EQUIPMENT TO THE POWER SUPPLY.

10.) IRRIGATION WATER CONNECTIONS AND SYSTEM CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL CODES FOR IRRIGATION INSTALLATION, SIGNAGE, PLACARDS AND CONNECTIONS TO THE RECLAIMED WATER SUPPLY. THE TERM LAVENDER COLOR ON THESE PLANS REFERS TO PANTONE COLOR #512, PER PLUMBING CODES AND THE USE OF RECLAIMED WATER FOR LANDSCAPE IRRIGATION.

11.) IRRIGATION INSTALLER TO ACQUIRE ALL PERMITS AND UTILIZE ALL SAFETY PRÉCAUTIONS REQUIRED TO WORK IN ROW OF ROADWAY. 12.) SIXTY (60) PSI MINIMUM STATIC WATER PRESSURE IS REQUIRED FOR THE

EFFICIENT OPERATION OF THE IRRIGATION SYSTEM AS DESIGNED. VERIFY THE MINIMUM STATIC WATER PRESSURE AND VOLUME IS AVAILABLE AT THE PROJECT SITE PRIOR TO BEGINNING THE IRRIGATION INSTALLATION. NOTIFY THE LANDSCAPE ARCHITECT IN WRITING IF THE MINIMUM STATIC WATER PRESSURE OR WATER VOLUME IS NOT AVAILABLE.

13.) AT THE END OF PARKING SPACES PLACE HEADS IN LINE WITH PARKING STRIPES OR 2.5 FEET FROM BACK OF CURB. (TYPICAL)

14.) TREE BUBBLER ON FLEX PE PIPE ALL NEW TREES IN ROTOR ZONE 1 & 2.



## LEGEND

RAINBIRD 1800 SERIES, 6" POP UP

HUNTER PGP ULTRA

HUNTER 1.5" PGV VALVE IRRIGATION CONTROL VALVE. PLASTIC BODY WITH FLOW CONTROL. MOUNT IN 15" RECTANGULAR VALVE BOX WITH PURPLE LID FOR RECLAIMED WATER. PROVIDE PURPLE COLOR VALVE ID TAG AND USE 3M-DBYR SPLICE MATERIAL.

NEW IRRIGATION CONTROLLER WITH RAIN SWITCH (RSD-BEX RAIN SENSOR). RAINBIRD ESP TM2 SERIES 6 STATION. 120 VOLT, 6 AMP, ELECTRIC CIRCUIT REQUIRED FROM NEAREST ELECTRICAL PANEL, BY THE SITE ELECTRICAL CONTRACTOR.

PVC MAIN LINE PIPE. CLASS 200, LAVENDER PVC. INSTALL 18" DEEP. 2.5" AND SMALLER, SOLVENT WELD PVC PIPE AND FITTINGS. 3" AND LARGER, GASKET JOINT PIPE AND DUCTILE IRON GASKET JOINT FITTINGS AND TRUST BLOCKS. SIZE PVC LATERAL LINE PIPE. CLASS 315, LAVENDER PVC. INSTALL 12" DEEP.

> DRIP EMITTER TUBING - .9 GPHX 12" EMITTER SPACING, AND 18" ROW SPACING. PVC PIPE SUPPLY AND EXHAUST HEADERS WITH AIR RELEASE VALVES, AND AUTO FLUSH VALVES IN VALVE BOXES PER HIGH, LOW, AND END POINTS OF THE TUBING. PROVIDE A 12" POP-UP SPRAY HEAD WITH THE NOZZLE SHUT OFF AS A SYSTEM OPERATION INDICATOR. USE PVC PIPE TO, AND BETWEEN, EACH PLANTING AREA. NETAFIM UNI-TECHLINE-CNL - 1 GPH - 12" OC, OR EQUAL. DENOTES TREE IN THIS AREA. REFER TO TREE DRIP COIL DETAIL

> > DRIP EMITTER TUBING - .9 GPHX 12" EMITTER SPACING, AND 18" ROW SPACING. PVC PIPE SUPPLY AND EXHAUST HEADERS WITH AIR RELEASE VALVES, AND AUTO FLUSH VALVES IN VALVE BOXES PER HIGH, LOW, AND END POINTS OF THE TUBING. PROVIDE A 12" POP-UP SPRAY HEAD WITH THE NOZZLE SHUT OFF AS A SYSTEM OPERATION INDICATOR. USE PVC PIPE TO, AND BETWEEN, EACH PLANTING AREA. HUNTER PLD-10-12 - 1 GPH - 12" EMITTER SPACING, OR EQUAL. DENOTES TREE IN THIS AREA. REFER TO TREE DRIP COIL DETAIL

SCHEDULE

OF WATER IN A WEEK WITHOUT RAINFALL.

SUGGESTED IRRIGATION SCHEDULES SHRUB DRIP ZONES - OPERATE 10 MINUTES TWO TIMES ON TWO DAYS OF THE WEEK PER LOCAL IRRIGATION SCHEDULING TIMETABLES TO APPLY .75"

TURF SPRAY ZONES - OPERATE 16 MINUTES TWO TIMES ON TWO DAYS OF THE WEEK PER LOCAL IRRIGATION SCHEDULING TIMETABLES TO APPLY 1.25" OF WATER A WEEK WITHOUT RAINFALL.

SUGGESTED IRRIGATION SCHEDULE FOR THE FIRST SIXTY DAYS AFTER PLANTING FOR PLANT ESTABLISHMENT - INCREASE STATION RUN TIMES BY 33% AND ADD ONE EXTRA DAY OF IRRIGATION TO APPLY 50% EXTRA WATER A WEEK WITHOUT RAINFALL

ACTUAL FIELD CONDITIONS, CLIMATE AND PLANT WATER NEEDS.

INSTALLER SHALL ADJUST THIS SCHEDULE AS NEEDED ACCORDING TO

SPRAY BODIES

RAINBIRD 1800 SERIES SPRAY BODIES & ADAPTERS POLY PIPE AND INSERT FITTING SWING JOINTS PROVIDE MPR SPRAY NOZZLES PER PLAN
USE U—SERIES NOZZLES FOR "D" & "K" NOZZLE DESIGNATION
USE VAN SERIES NOZZLES FOR "Z", "Z12" & "Z10" NOZZLE DESIGNATION

> S ● 6" POP-UP TURF SPRAY BODY T ▲ 12" POP-UP SHRUB SPRAY BODY

> TREE BUBBLER ON FLEX PE PIPE

А	0.9	15'	QUARTER		
В	1.25	15'	ONE THIRD		
С	1.85	15'	HALF		
D	2.5	15'	TWO THIRD		
Ε	2.8	15'	THREE QTR.		
F	3.7	15'	FULL		
G	0.65	12'	QUARTER		
Н	0.9	12'	ONE THIRD		
J	1.3	12'	HALF		
K	1.75	12'	TWO THIRD		
L	1.95	12'	THREE QTR.		
M	2.6	12'	FULL		
N	0.4	10'	QUARTER		
P R	0.5 0.8	10'	ONE THIRD HALF		
U	0.6	<u>10'</u> 4' X 15'	- · · · · <del>-</del> ·		
<b>V</b>	1.2	4' X 30'			
W	1.2	4' X 30'			
X	1.7	9' X 18'	SIDE STRIP		
Z10	VARIES	10'	10' ADJUSTABLE ARC		
Z12	VARIES	12'	12' ADJUSTABLE ARC		
Z	VARIES	15'	15' ADJUSTABLE ARC		
Y	0.5	1'	FLOOD BUBBLER		
0	1.0	5'	STREAM BUBBLER		
1	0.3	8'	QUARTER		
2 3	0.4 0.5	8' 8'	ONE THIRD HALF		
	0.5	O	1 1/1 NET		

IF THIS SHEET IS LESS THAN 24" X 36" IT IS A REDUCED DRAWING

RADIUS

IRRIGATION PLAN CALE: AS NOTED

DRAWN BY:

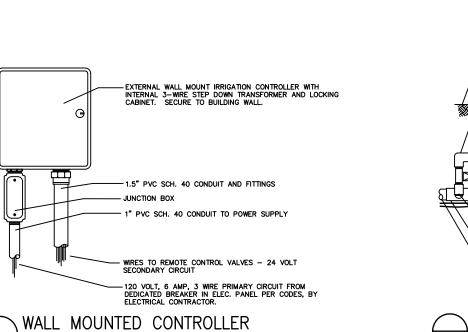
CHECKED BY:

Ω

R. Miller ARCHITECTURE,

REUSE WATER TAP AND REUSE WATER METER, PER LOCAL OUC CODES. SIZE INDICATED ON CIVIL PLAN. <sup>-</sup> 2.5" AND SMALLER, SOLVENT WELD PVC PIPE AND FITTINGS. SIZE SLV. PVC SLEEVE PIPE. SCHEDULE 40, PVC. SOLVENT WELD PVC PIPE AND FITTINGS. ALL PAVEMENT CROSSINGS DRIP IRRIGATION VALVE, FILTER AND REGULATOR ASSEMBLY. LOW VOLUME 1-15 GPM (.75") - HUNTER DRIP ZONE KIT (ACZ-075-25) 2-20 GPM (1") - HUNTER DRIP ZONE KIT (ICZ-101-25) 40-60 GPM (1.5") - HUNTER DRIP ZONE KIT (ICZ-151-40) DRIP IRRIGATION VALVE, FILTER AND REGULATOR ASSEMBLY. 3-5 GPM (3/4") - RAIN BIRD LOW FLOW CONTROL ZONE KIT (XCZ-075-PRF) 3-15 GPM (1") \_ RAIN BIRD MEDIUM CONTROL ZONE KIT (XCZ-RPB-100-COM) 15-40 GPM (1.5") - RAIN BIRD CONTROL ZONE KIT (XCZ-RPB-150-COM) 40-60 GPM (1.5") - HUNTER DRIP ZONE KIT (ICZ-151-40)

DRIP IRRIGATION LINES IN PLANTERS NOT TO SCALE



✓ RAINBIRD ESP—TM2 SERIES

SUPPLY HEADER (PVC)

PROVIDE AIR VACUUM RELIEF VALVE AT HIGH POINT AND AUTOMATIC

DRIP ZONE OPERATION INDICATOR.

12" POP-UP SPRAY HEAD. COMPLETELY—
CLOSE NOZZLE ADJUSTMENT SCREW.

RAIN BIRD SPRAY TO DRIP RETROFIT KIT —
200 MESH FILTER AND 30 PSI PRESSURE
REGULATOR IN SPRAY HEAD BODY,
MOUNT ON SPRAY HEAD LATERAL LINE.
RAIN BIRD MOCF TEE OR EL TO CONVERT
FROM HEAD TO TUBING.

N LINE DRIP TUBING LINES

SET CAP 1" ABOVE FINISHED GRADE AT TOP OF SOD LAYER

DO NOT USE SIDE INLET
 WHEN PRESSURE REGULATION
 IN HEAD DOES NOT ALLOW.

> POP UP SPRAY

SPRAY HEAD BUTTA ADED LATERAL TEE
- SPRAY HEAD BODY

-COIL CONTROL WIRES IN VALVE BOX

- WATER PROOF SPLICE MATERIAL

— 15" RECTANGULAR PLASTIC VALVE BOX WITH LAVENDER LID

SET TOP OF FLOW STEM MAX

(2) SCH. 80 PVC TOE NIPPLES OUT OF VALVE WITH TEFLON TAP

-LINE BOTTOM OF VALVE BOX WITH 6" OF RIVER ROCK GRAVEL

4" BELOW VALVE BOX TOP

TURN OUTLET ON MAINLINE TEE HORIZONTAL PROVIDE ELBOW FITTING TO GO VERTICAL

- TAPE CONTROL WIRES TO PIPE IN BOX

SOLENOID CONTROL VALVE

\_ EXTEND ALL SLEEVES 3" BEYOND EDGE OF PAVEMENT, TYPICAL

-FINISHED GRADE-VARIES

-UNDISTURBED SOIL

SLEEVE UNDER PAVING

CLASS 200 PVC SLEEVE SIZE AS NOTED ON PLANS

CAP BOTH ENDS OF PVC SLEEV BELOW GRADE AND LEAVE CAPS UNGLUED ON PVC SLEEVE

NOT TO SCALE

- VALVE ID TAG

PVC SCH 80 NIPPLE (LENGTH AS REQUIRED, 1 OF 2) WATERPROOF CONNECTION: RAIN BIRD SPLICE-1 (1 OF 2) — PVC SCH 40 FEMALE ADAPTER KR968888888 - BRICK (1 OF 4) 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL PVC SCH 80 NIPPLE CONTROL ZONE KIT: RAIN BIRD XCZ-100-PRF-BF (INCLUDES DV-100 VALVE, BACK FLUSH PRESSURE REGULATING FILTER, BUCK BILL BOOT) - PVC SCH 40 TEE OR ELL - PVC MAINLINE

- PVC SCH 80 NIPPLE, CLOSE

- PVC SCH 40 BALL VALVE

\_\_ PVC SCH 40 TEE OR ELL

NOT TO SCALE

igchap 1" CONTROL ZONE KIT WITH PRESSURE ✓ REGULATING BACKFLUSH FILTER NOT TO SCALE

# ALTA \ NSPS LAND TITLE SURVEY ZARABROOKE

SECTION 5, TOWNSHIP 21 SOUTH, RANGE 28 EAST CITY OF APOPKA ORANGE COUNTY, FLORIDA

### Legal Description

THE SOUTH 198.00 FEET OF THE NORTH 3/4 OF THE EAST 1/2 OF THE NORTHEAST 1/4 OF SECTION 5, TOWNSHIP 21 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA; LESS THE WEST 12 FEET THEREOF AND LESS AND EXCEPT ROAD RIGHT-OF-WAY ON THE EAST.

BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE EAST 1/4 CORNER OF SECTION 5, TOWNSHIP 21 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA; THENCE RUN N 02'25'40"E ALONG THE EAST LINE OF NORTHEAST 1/4 SAID SECTION 5, A DISTANCE OF 663.59 FEET TO THE SOUTHEAST CORNER OF THE NORTH 3/4 OF THE NORTHEAST 1/4 OF SAID SECTION 5; THENCE RUN N 87'40'52"W ALONG THE SOUTH LINE OF SAID NORTH 3/4 A DISTANCE OF 80.00 FEET TO A POINT ON THE WESTERLY RIGHT-OF-WAY LINE OF VICK ROAD (80' RIGHT-OF-WAY) FOR A POINT OF BEGINNING; THENCE CONTINUE N 87'40'52"W ALONG SAID SOUTH LINE OF THE NORTH 3/4 OF THE NORTHEAST 1/4 OF AFORESAID SECTION 5 A DISTANCE OF 1228.88 FEET TO THE SOUTHEAST CORNER OF TRACT "E", THE COURTYARDS PHASE TWO, AS RECORDED IN PLAT BOOK 31, PAGES 63 & 64, ORANGE COUNTY, FLORIDA; THENCE RUN N 02'21'04"E ALONG THE EAST LINE OF SAID "TRACT "E" 198.00 FEET TO THE SOUTHERLY LINE OF LOT 45, OF SAID "THE COURTYARDS PHASE TWO"; THENCE RUN S 87'40'52"E ALONG THE SOUTHERLY LINES OF LOTS 24 THRU 45, OF SAID "THE COURTYARDS PHASE TWO" 1229.14 FEET TO THE AFORESAID WESTERLY RIGHT-OF-WAY LINE OF VICK ROAD; THENCE RUN S 02'25'40"W ALONG SAID WESTERLY RIGHT-OF-WAY LINE 198.00 FEET TO THE POINT OF BEGINNING.

CONTAINING 5.59 ACRES MORE OR LESS.

#### Notes

1. Bearing structure is based on the East Line of the Northeast 1/4 of Section 5, Township 21 South, Range 28 East, Orange County, Florida; having an assumed bearing of North 02°25'40" East.

- 2. This survey does not reflect or determine ownership.
- 3. Underground improvements or underground foundations have not been located.
- 4. According to the Federal Insurance Rate Map, this property lies in Zone "X", Map number 12095C0110f, dated September 25, 2009.
- 5. This property lies in Section 5, Township 21 S., Range 28 E., Orange County, Florida.

6. Elevations and Contours are based on Orange County Benchmark, Designation Number S817002, having an Elevation of 108.912 feet (NAVD 88 datum).

- 7. Contours are shown at 1.0 Foot intervals.
- 8. No title commitment was provided to the surveyor at the time of survey.
- 9. A new legal description was prepared for the subject property for platting purposes.
- 10. The new legal description is intended to describe the same property recorded in official records book 7704, page 4871, public records of Orange County, Florida.
- 11. No zoning information was provided to the surveyor at the time of survey.
- 12. There is a 15.00 drainage easement as recorded in official records book 7580, page 15, that affects subject property and is depicted hereon.
- 13. Site address is 800 Vick Road, Apopka, Florida 32751.
- 14. Subject property contains 5.59 acres of land plus or minus.
- 15. There is no evidence of recent earth moving work, building construction or additions at the time of
- 16. The surveyor is not aware of proposed changes in street right of way lines and has not evidenced sidewalk or street construction.

### Legend

Right-of Way Permanent Reference Monument Permanent Control Point P.C.P. C.M. Concrete Monument R.L.S. Registered Land Surveyor Typical Utilities Easement UFO Underground Fiber Optic Sidewalk Benchmark Iron Rod ⋈sv Sewer Valve Water Valve Telephone Riser

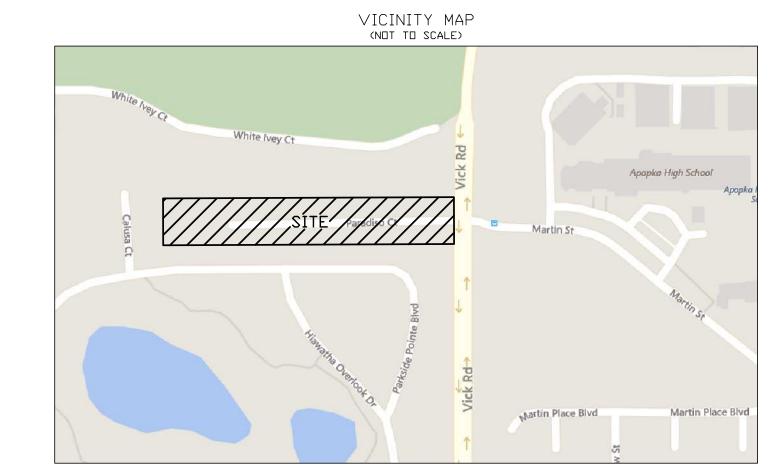
ER Electric Riser

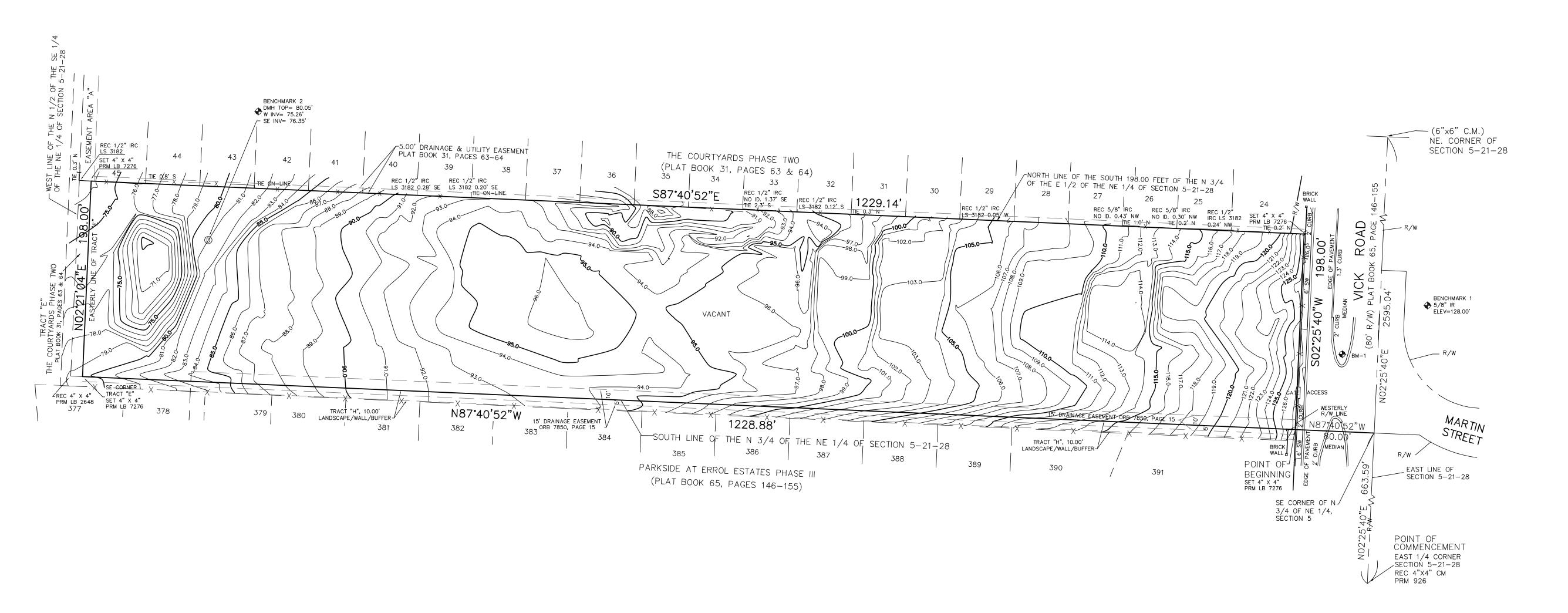
DMH DRAINAGE MANHOLE
INV INVERT
PVC POLYVINYL CHLORIDE PIPE
RCP REINFORCED CONCRETE PIPE
SSMH SANITARY SEWER MANHOLE
CHBY CHINABERRY

CMPH CAMPHOR

Q CENTERLINE

ORB OFFICIAL RECORDS BOOK





### SURVEYOR'S CERTIFICATE

To: ZARABROOKE, LLC

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2016 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes items 1, 2, 3, 4, 5, 8, 11, 13, 14, 16 and 17 of Table A thereof. The field work was completed on March 16,

Date of Map: April 13, 2017.

William F. Menard Report & Mapper Florida Registration No. 5625

SEE SHEET 2 FOR TREES & STRUCTURES

BOUNDARY & TOPOGRAPHICAL SURVEY

SHEET 1 OF 2

ZARABROOKE FOR ZARABROOKE, LLC

Henrich-Luke-Swaggerty-Menard

Professional Surveyors & Mappers

Licensed Business No. 7276
794 Big Tree Drive, Suite 108
Longwood, Florida 32750
P. (407) 647-7346

Survey@HLSM.US

F. (407) 982-7166

REVISIONS

 Rev. INVERT INFO
 Date: 5-16-17

 Rev. Date:
 Date:

 Rev. Date:
 Date:

THIS SURVEY MAP AND REPORT OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

 Job No:
 H-113

 Field Date:
 3/15/17

 Drawn By:
 GJS

 Field By:
 WKP/TH

Scale:

William F. Menard
Professional Surveyor & Mapper
Florida Registration #5625

ECIS/ZARABROUKE/AKA PARADISO PARK/DWG/BNDY-

#### NSPS LAND TITLE SURVEY ZARABROOKE SECTION 5, TOWNSHIP 21 SOUTH, RANGE 28 EAST CITY OF APOPKA ORANGE COUNTY, FLORIDA — (6"x6" C.M.) NE. CORNER OF SECTION 5—21—28 1228.88' PARKSIDE AT ERROL ESTATES PHASE III EAST LINE OF SECTION 5-21-28 (PLAT BOOK 65, PAGES 146-155) SE CORNER OF N / 3/4 OF NE 1/4, SECTION 5 Permanent Reference Monument Permanent Control Point Concrete Monument Registered Land Surveyor TREE MAP Utilities Fasement UFO SW Underground Fiber Optic Sidewalk Benchmark Iron Rod Sewer Valve Water Valve TR Telephone Riser Light Pole Re-Use Water Main HE N 1/2 OF OF SECTION E ER Electric Riser DRAINAGE MANHOLE DMH INVERT INV PVC POLYVINYL CHLORIDE PIPE — (6"x6" C.M.) NE. CORNER OF RCP REINFORCED CONCRETE PIPE SANITARY SEWER MANHOLE SECTION 5-21-28 PLAT BOOK 31, PAGES 63-64 THE COURTYARDS PHASE TWO CHBY CHINABERRY (PLAT BOOK 31, PAGES 63 & 64) CAMPHOR NORTH LINE OF THE SOUTH 198.00 FEET OF THE N 3/4 CENTERLINE OF THE E 1/2 OF THE NE 1/4 OF SECTION 5-21-28 OFFICIAL RECORDS BOOK S87°40<sup>'</sup>752"E 1229.14 | INLET TOP= 87.66' | S INV=83.61' | 15" RCP BENCHMARK 2 DMH TOP= 80.05' END PIPE= 74.92' W INV= 75.26' SE INV= 76.35' SHEET 2 OF 2 SEE SHEET 1 FOR BOUNDARY AND TOPOGRAPHICAL SURVEY BOUNDARY & TOPOGRAPHICAL SURVEY 5/8" IR ELEV=128.00' ZARABROOKE INLET TOP= 80.67' FOR BOTTOM= 77.73' ZARABROOKE, LLC SSMH TOP= 80.42' SSMH TOP= 92.99' E INV= 84.96' E INV= 73.47' E INV= 74.99' S INV= 72.93' E INV= 81.00' W INV= 80.77' HLSM, LLG DMH INACCESSIBLE N INV= 81.05' E INV= 86.60' SSMH TOP= 109.54' DMH TOP= 92.66' W INV= 86.47 E INV= 101.60' W INV= 101.63" NW INV= 80.30' E INV= 80.36' Professional Surveyors & Mappers Licensed Business No. 7276 794 Big Tree Drive, Suite 108 Longwood, Florida 32750 P. (407) 647-7346 F. (407) 982-7166 urvey@HLSM.US 378 | S INV = 78.66' 379 | 380 MARTIN 1228.88' W INV= 90.92" E INV= 90.97 382 STREET Survey@HLSM.US SOUTH LINE OF THE N 3/4 OF THE NE 1/4 OF SECTION 5-21-28 <u>REVISIONS</u> Rev.<u>INVERT\_INFO</u> \_Date: <u>5-16-17</u> PARKSIDE AT ERROL ESTATES PHASE III \_ EAST LINE OF BEGINNING SET 4" X 4" PRM LB 7276 SECTION 5-21-28 (PLAT BOOK 65, PAGES 146-155) SE CORNER OF NJ THIS SURVEY MAP AND REPORT OR THE COPIES THEREOF ARE 3/4 OF NE 1/4, SECTION 5 NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. DRAINAGE & SANITARY MAP POINT OF COMMENCEMENT EAST 1/4 CORNER Field Date: 3/15/17 \_SECTION 5-21-28 Drawn By: REC 4"X4" CM PRM 926 WKP/TH Field By: 1"=60' Scale:

# ZARABROOKE

## SECTION 5, TOWNSHIP 21 SOUTH, RANGE 28 EAST CITY OF APOPKA ORANGE COUNTY, FLORIDA

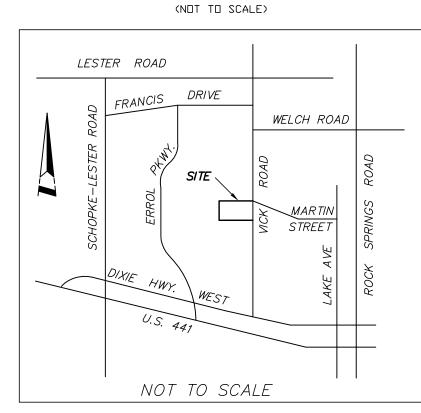
### Legal Description

THE SOUTH 198.00 FEET OF THE NORTH 3/4 OF THE EAST 1/2 OF THE NORTHEAST 1/4 OF SECTION 5, TOWNSHIP 21 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA; LESS THE WEST 12 FEET THEREOF AND LESS AND EXCEPT ROAD RIGHT-OF-WAY ON THE EAST.

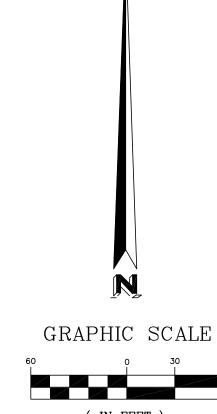
BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE EAST 1/4 CORNER OF SECTION 5, TOWNSHIP 21 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA; THENCE RUN N 02°25'40"E ALONG THE EAST LINE OF NORTHEAST 1/4 SAID SECTION 5, A DISTANCE OF 663.59 FEET TO THE SOUTHEAST CORNER OF THE NORTH 3/4 OF THE NORTHEAST 1/4 OF SAID SECTION 5; THENCE RUN N 87\*40'52"W ALONG THE SOUTH LINE OF SAID NORTH 3/4 A DISTANCE OF 80.00 FEET TO A POINT ON THE WESTERLY RIGHT-OF-WAY LINE OF VICK ROAD (80' RIGHT-OF-WAY) FOR A POINT OF BEGINNING; THENCE CONTINUE N 87'40'52"W ALONG SAID SOUTH LINE OF THE NORTH 3/4 OF THE NORTHEAST 1/4 OF AFORESAID SECTION 5 A DISTANCE OF 1228.88 FEET TO THE SOUTHEAST CORNER OF TRACT "E", THE COURTYARDS PHASE TWO, AS RECORDED IN PLAT BOOK 31, PAGES 63 & 64, ORANGE COUNTY, FLORIDA; THENCE RUN N 02°21'04"E ALONG THE EAST LINE OF SAID "TRACT "E" 198.00 FEET TO THE SOUTHERLY LINE OF LOT 45, OF SAID "THE COURTYARDS PHASE TWO"; THENCE RUN S 87'40'52"E ALONG THE SOUTHERLY LINES OF LOTS 24 THRU 45, OF SAID "THE COURTYARDS PHASE TWO" 1229.14 FEET TO THE AFORESAID WESTERLY RIGHT-OF-WAY LINE OF VICK ROAD; THENCE RUN S02°25'40"W ALONG SAID WESTERLY RIGHT-OF-WAY LINE 198.00 FEET TO THE POINT OF BEGINNING.

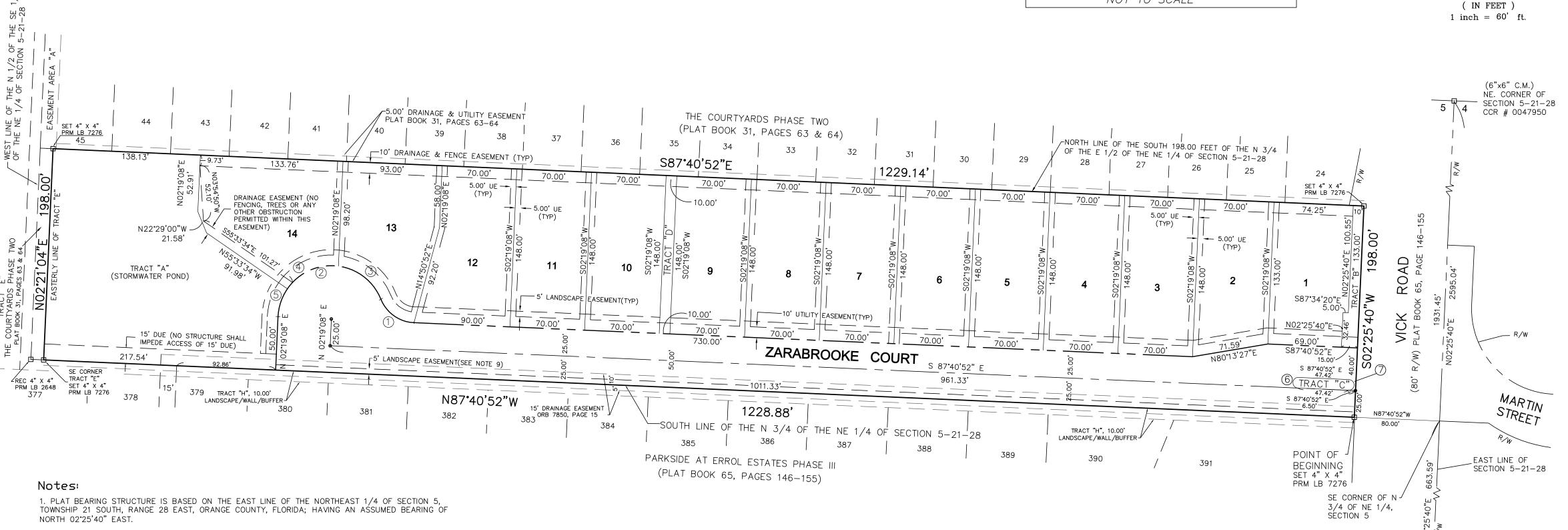
CONTAINING 5.59 ACRES MORE OR LESS.



VICINITY MAP



SHEET 1 OF 1



2. TRACT "A" IS FOR STORMWATER RETENTION PURPOSES OWNED AND MAINTAINED BY THE HOMEOWNER'S

3. TRACT "B" IS FOR LANDSCAPE/WALL PURPOSES OWNED AND MAINTAINED BY THE HOMEOWNER'S ASSOCIATION.

4. TRACT "C" IS FOR A LANDSCAPED ISLAND OWNED AND MAINTAINED BY THE HOMEOWNER'S

5. TRACT "D" IS A DRAINAGE TRACT OWNED AND MAINTAINED BY THE HOMEOWNER'S ASSOCIATION. 6. ALL PLATTED UTILITY EASEMENTS HEREBY PROVIDE THAT SUCH EASEMENTS SHALL ALSO BE EASEMENTS FOR THE CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION OF CABLE TELEVISION SERVICES SUBJECT TO STATUTORY LIMITAITONS THEREON.

7. VEHICULAR ACCESS RIGHTS (INGRESS/EGRESS) OFF ZARABROOKE COURT RIGHT-OF-WAY SHALL BE DEDICATED TO THE CITY OF APOPKA, AS APPROVED BY THE CITY ENGINEER.

8. THE 5 FOOT WIDE LANDSCAPE EASEMENT IS FOR THE MAINTENANCE AND PROTECTION OF STREET

TREES BY THE HOME OWNER'S ASSOCIATION. 9. THE 5 FOOT WIDE LANDSCAPE EASEMENT ALONG THE SOUTH BOUNDARY OF THIS PLAT IS TO BE

MAINTAINED BY THE HOME OWNER'S ASSOCIATION.

10. THE 10 FOOT WIDE FENCE EASEMENT ALONG LOTS 1-14 IS FOR THE PROTECTION AND MAINTENANCE OF THE FENCE BY THE HOME OWNER'S ASSOCIATION.

11. SUBJECT PROPERTY FORMERLY KNOWN AS PARADISO PARK, AN UNPLATTED SUBDIVISION.

12. A 15 FOOT DRAINAGE EASEMENT RECORDED IN OFFICIAL RECORDS BOOK 7850, PAGE 15 AFFECTS THIS PROPERTY AND IS DEPICTED HEREON.

			CORVE	DATA	_	
No.	RADIUS	DELTA	LENGTH	TANGENT	CHORD	CHORD BEARING
1	35.00'	65°41'03"	40.12	22.59'	37.96	N54°50'20"W
2	50.00	155°41'03"	135.86'	232.09'	97.76	N80°09'40"E
3	50.00'	60°34'01"	52.85	29.20'		N52°16'49"W
4	50.00'			30.64	52.25	S65°56'18"W
5	50.00'	32°07'18"	28.03	14.39'	27.67	S18°22'47"W
6	5.00'	180°00'00"	15.71		10.00	N02°19'08"E
7	5.00'	180°00'00"	15.71		10.00'	S02°19'08"W

### Legend

R/W RIGHT-OF WAY PERMANENT REFERENCE MONUMENT P.C.P. PERMANENT CONTROL POINT C.M. CONCRETE MONUMENT R.L.S. REGISTERED LAND SURVEYOR UTILITIES EASEMENT IRON ROD ORB OFFICIAL RECORDS BOOK DUE DRAINAGE & UTILITY EASEMENT CENTERLINE SET NAIL & DISK PCP LB 7276

PRM 7276

SET 4" X 4" CONCRETE MONUMENT

### CERTIFICATE OF COUNTY COMPTROLLER

I HEREBY CERTIFY, That I have examined the foregoing plat and find that it complies in form with all the requirements of Chapter 177, Florida Statutes, and was filed for record on ..... at..... File No.....

	co	unty	Cor	nptroller	-	
l i	$\cap$	and	for	Orange	County,	Florida

COMMENCEMENT

EAST 1/4 CORNER

SECTION 5-21-28

REC 4"X4" CM PRM 926 CCR # 0042708

D.C.

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.

PLAT BOOK

PAGE

### ZARABROOKE DEDICATION

KNOWN TO ALL MEN BY THESE PRESENTS. That the undersigned, are the lawful owners in fee simple of the lands described in the caption of this Plat, hereby dedicates said lands and plat for the uses and purposes therein expressed and dedicates the STREETS AND EASEMENTS shown hereon to the perpetual use of the public and the City of Apopka,

IN WITNESS WHEREOF, said Declarant has caused these presents to be executed by the undersigned Owner, thereunto duly authorized on this \_\_\_\_\_ day of \_\_\_\_\_\_, 2018.

Zarabrooke, LLC

By: Barry Kalmanson, Owner

Signature

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

Signature of Witness

Signature of Witness

NOTARY SEAL

Printed Name of Witness Printed Name of Witness

STATE OF FLORIDA COUNTY OF \_\_\_\_

The foregoing Dedication was acknowledged before me this

LLC, on behalf of said company. He is personally known to me or has produced \_\_\_\_\_ as identification, and did (did not) take an oath that he is the person described in and who executed the foregoing dedication and severally acknowledged the execution thereof to his free act and deed.

IN WITNESS WHEREOF, I have hereto set my hand and seal on the above date.

Notary Public — State of Florida

Commission No.:

My Commission Expires:

### CERTIFICATE OF APPROVAL BY CITY COUNCIL

THIS IS TO CERTIFY, That on..... the foregoing plat was approved by City Council.

Mayor

Attest:

City Clerk

### CERTIFICATE OF SURVEYOR

I hereby certify that this plat is a true and correct representation of the lands surveyed, that the survey was made under my responsible direction and supervision, and that the survey data contained herein complies with all of the requirements of Chapter 177 of the Florida Statutes. I further certify that I have complied with the requirements of Chapter 177.091(7) regarding "permanent reference monuments", and that the land is located within Orange

Dated...

Signature... WILLIAM F. MENARD Registration No. 5625

County, Florida.

H L S M, LLC HENRICH-LUKE-SWAGGERTY-MENARD 794 Big Tree Drive, Suite 108 Longwood, Florida 32750 Certificate of Authorization No. 7276

CERTIFICATE OF REVIEW BY CITY SURVEYOR

This Plat has been reviewed for conformity with chapter 177, Florida Statutes.

REVIEWED BY:

Date CERTIFICATE OF APPROVAL BY

Date

# PLANNING COMMISSION

Examined and Approved.

Chairman

CERTIFICATE OF APPROVAL

# BY CITY ENGINEER

Examined and Approved.

Date City Engineer

F. (407) 982-7166

Professional Surveyors & Mappers

Survey@HLSM.US

Licensed Business No. 7276

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Longwood, Florida 32750

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