

City of Apopka Planning Commission Meeting Agenda August 14, 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:

1 Approve minutes of the Planning Commission regular meeting held July 10, 2018.

IV. PUBLIC HEARING:

- Kelly Park Interchange Form-Based Code, Employment District's MEdTech Campus Overlay District
- 2. PUD Master Plan Amendment Avian Pointe Property owned by Apopka Clear Lake Investments, LLC and located on the east side of SR 429, north of Lust Road. (Parcel ID #s: 07-21-28-0000-00-002; 07-21-28-0000-00-015; 07-21-28-0000-00-064)

V. SITE PLANS:

- 1. FINAL DEVELOPMENT PLAN AUTOZONE STORE Property owned by Calmil Investment Group LP (95% Interest) Kenneth Lee Jureit Trust (5% Interest) and located 1120 West Orange Blossom Trail. (Parcel ID #: 05-21-28-0000-00-025 portion)
- 2. FINAL DEVELOPMENT PLAN IHOP RESTAURANT Property owned by Calmil Investment Group LP (95% Interest) Kenneth Lee Jureit Trust (5% Interest) and located 1120 West Orange Blossom Trail. (Parcel ID #: 05-21-28-0000-00-025 portion)
- 3. PLAT BRIDLEWOOD SUBDIVISION (FKA EQUESTRIAN CENTER SUBDIVISION) Property owned by Laura R. Murphy and located at 359 West Lester Road. (Parcel ID #: 28-20-28-0000-00-060)
- 4. PRELIMINARY DEVELOPMENT PLAN CARRIAGE HILL PHASE II SUBDIVISION Property owned by JTD Land at Rogers Road, LLC, and located at 1455 West Lester Road. (Parcel ID #s: 29-20-28-0000-00-005; 29-20-28-0000-00-049)

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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.

MINUTES OF THE PLANNING COMMISSION REGULAR MEETING HELD ON JUNE 26, 2018, AT 5:30 P.M. IN THE CITY COUNCIL CHAMBERS, APOPKA, FLORIDA.

MEMBERS PRESENT: James Greene, Linda Laurendeau, Roger Simpson, John Sprinkle, and Butch Stanley

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

STAFF PRESENT: James Hitt, FRA-RA – Community Development Director, David Moon, AICP - Planning Manager, Richard Earp – City Engineer, Patrick Brackins – City Attorney, Bobby Howell - Senior Planner, Pamela Richmond – Senior Planner, Jean Sanchez – Planner II, Phil Martinez – Planner I, Chuck Carnesale – Fire Chief, and Jeanne Green – Recording Secretary

OTHERS PRESENT: Ken Ehlers, Andrea Cardo, Richard C. Wohlfarth, P.E., Chris Blurton, John Perry – Apopka Chief

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

APPROVAL OF MINUTES: Chairperson Greene stated the June 26, 2018, meeting minutes were re-sent to the Planning Commission with a revision that reflected the following correction to the Greystone Skilled Nursing Facility motion as follows:

Motion:

Jose Molina made a motion to find the Greystone Skilled Nursing Facility Master/Preliminary Development Plan consistent with the Comprehensive Plan and Land Development Code; and recommend approval of the Greystone Skilled Nursing Facility Master/Preliminary Development Plan subject to the Conditions of Approval and findings of the staff report for the property owned by Residences at Emerson Park, LLC and located at 1601 Alston Bay Boulevard. Motion seconded by John Sprinkle. Aye votes were cast by James Greene, Linda Laurendeau, Jose Molina, and John Sprinkle, and Butch Stanley (5 4-0). Butch Stanley abstained from voting due to his position on the Emerson Park Homeowners' Association and will file a Form 8B for the record. (Vote taken by poll.)

He asked if there were any additional corrections or additions to the regular meeting minutes of June 26, 2018, at 5:30 p.m.

Motion:

Butch Stanley made a motion to approve the Planning Commission minutes from the regular meeting held on June 26, 2018, at 5:30 p.m. and seconded by Linda Laurendeau. Aye votes were cast by James Greene, Linda Laurendeau, John Sprinkle, and Butch Stanley (4-0).

QUASI-JUDICIAL – PLANNED UNIT DEVELOPMENT AMENDMENT – ORANGE BLOSSOM APOPKA RV RESORT - Chairperson Greene stated this is a request to request to find the proposed PUD amendment consistent with the Comprehensive Plan and Land Development Code; and recommend to approve an amendment to Ordinance 2345, to allow a maximum of 92 campground sites at the Orange Blossom Apopka RV Resort located at 3800 West Orange Blossom Trail.

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 ex parte communications occurred.

Staff Presentation: Phil Martinez, Planner I, stated this is a request to find the proposed PUD amendment consistent with the Comprehensive Plan and Land Development Code; and recommend to approve an amendment to Ordinance 2345, to allow a maximum of 92 campground sites at the Orange Blossom Apopka RV Resort owned by Orange Blossom Apopka RV Resort Inc., c/o Robert Vesely, and located at 3800 West Orange Blossom Trail. The existing use is a RV Resort Park (Caravan Park). The proposed use is to maintain the existing RV park and add 11 more lots. The land use is Mixed Use and the zoning is PUD (Planned Unit Development). The total tract size is 10.2 + -

The subject property is located at 3800 West Orange Blossom Trail. Annexed on January 16, 2008, via Ordinance number 2006, the site comprised of a RV Resort Park. On January 15, 2014, the subject area was assigned PUD zoning, via Ordinance number 2345.

Ordinance No. 2345 permits 81 campground sites for recreation vehicles, campers, or manufactured homes for commercial temporary lodging and associated accessory uses or structures. Any additional campground sites must be approved by City Council. The applicant proposes 11 additional sites along the southern boundary line. Parallel to the southern boundary line is a solid, opaque fence and Fudge Road. The predominant uses south of Fudge Road are mostly agriculture and industrial oriented. Due to the surrounding uses, Planning staff does not object to 11 additional campground sites along the southern border. If the PUD amendment is approved, a maximum of 92 campground sites will be allowed.

A maximum number of campground sites was established within Ordinance No. 2345 to manage the intensity of the use of the property for public health, safety and welfare reasons. At the time of the original PUD zoning application, the campground owner proposed 81 campground sites. At this time the owner desires to expand the campground to accommodate 11 additional campground sites. The Development Review Committee did not identify any concerns regarding public health, safety, or welfare, or with compatibility with adjacent land uses.

The proposed amendment to Ordinance 2345 is consistent with the City's Mixed Use Future Land Use category. Development plans shall not exceed the intensity allowed under the adopted Mixed Use Future Land Use designation.

The Property is located on a major arterial road (West Orange Blossom Trail). The proposed amendment to Ordinance 2345 will not create any land use or traffic compatibility issues with adjacent uses. Development of the site must occur consistent with standards set forth in the Land Development Code and Development Design Guidelines unless otherwise approved within the PUD master plan.

The only revisions PUD Ordinance 2345 is the maximum number of campground sites.

Proposed Amendment to Ord. No. 2345:

Section I.: The maximum number of campsites is proposed to be increased from 81 to 92 campsites. The following amendment (strike-through/underscore) is proposed to Ord. No. 2345:

- A. The uses permitted within the PUD district are:
 - A maximum of <u>81 92</u> campground sites for recreation vehicles, campers, or manufactured homes for commercial temporary lodging and associated accessory uses or structures. Any additional campground sites must be approved by the City Council.

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- One permanent single family residential structure or manufacture home for the campground operator.
- Outdoor storage of recreation vehicles or campers, boats, and boat trailers, and outdoor recreational motor craft. Outdoor storage of automobiles, commercial trucks and trailers, and other large vehicles is not allowed.
- Any use or activity allowed within the C-1 commercial zoning category. Development standards and setbacks shall comply with those established for the C-1 zoning category unless otherwise approved by the City Council within the Master Plan.

The Development Review Committee recommends approval of the amendment to Ordinance 2345, for the property owned by Orange Blossom Apopka RV Resort Inc., located at 3800 West Orange Blossom Trail, subject to PUD Recommendations and the information and findings in the staff report.

Staff recommended the Planning Commission find the proposed PUD amendment consistent with the Comprehensive Plan and Land Development Code; and recommend to approve an amendment to Ordinance 2345, to allow a maximum of 92 campground sites at the Orange Blossom Apopka RV Resort located at 3800 West Orange Blossom Trail.

The role of the Planning Commission is advisory to the City Council. Planning Commission can recommend to approve, deny or to 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 question by Mr. Sprinkle, Ms. Sanchez stated that if it is found that the applicant needs to replace trees, the City's Land Development Code addresses the types of trees that the applicant can use for replacements; and the Tree Bank policy addresses the option to make a contribution to the City's Tree Bank to mitigate any remaining tree inches needed.

In response to questions by Mr. Sprinkle, Mr. Moon stated that when the change of zoning to PUD occurred in 2014, staff had concerns regarding the ZIP zoning on the subject parcel and felt the need to restrict the number of campsites.

The Petitioner did not have a presentation.

Mr. Simpson arrived at 5:36 p.m.

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

Motion: Linda Laurendeau made a motion to request to find the proposed PUD amendment consistent with the Comprehensive Plan and Land Development Code; and recommend to approve an amendment to Ordinance 2345, to allow a maximum of 92 campground sites at the Orange Blossom Apopka RV Resort located at 3800 West Orange Blossom Trail. Motion seconded by John Sprinkle. Aye votes were cast by Aye votes were cast by James Greene, Linda Laurendeau, John Sprinkle, and Butch Stanley (4-0). Roger Simpson abstained from voting due to his arrival missing the presentations and will file a Form 8B for the record.

(Vote taken by poll.)

QUASI-JUDICIAL – PRELIMINARY DEVELOPMENT PLAN – FAIRFIELD INN & SELF-STORAGE - Chairperson Greene stated this is a request to find the Fairfield Inn and Self-Storage Preliminary Development Plan consistent with the Land Development Code and Comprehensive Plan;

and recommend approval of Preliminary Development Plan Subdivision Plan and Site Plan, subject to the findings of this staff report for the property owned by Farish Enterprises, LLC, and located at 1616 East Semoran Boulevard.

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 ex parte communications occurred.

Staff Presentation: Jean Sanchez, Planner II, stated this is a request to find the Fairfield Inn and Self-Storage Preliminary Development Plan consistent with the Land Development Code and Comprehensive Plan; and recommend approval of Preliminary Development Plan Subdivision Plan and Site Plan, subject to the findings of this staff report for the property owned by Farish Enterprises, LLC, and located at 1616 East Semoran Boulevard. The engineer is Interplan, LLC, c/o Stuart Anderson, P.E. The land use is Commercial and the zoning is C-2 (General Commercial District). The existing use is vacant land and the proposed uses are a hotel, self-storage facility and RV parking. The hotel proposed with 91 rooms and a building size of 51,588 sq. ft. The storage facility building size is proposed to be 60,732 sq. ft. The building height for the hotel is proposed at 53 feet and 35 feet for the storage facility. The Floor Area Ratio is 0.2499 (maximum of 0.25 allowed. The tract size is 12.12 +/- Acres (527,937 square feet).

Farish Enterprises proposes to replat the McVilla Commerce Park Plat from three lots to four lots. Lot 3 of the McVilla Commerce Center Plat will be subdivided into Lots 3A and 3B. Lot 3B, is the proposed location of a hotel and a storage facility. Lot 3A is proposed as an outparcel and is situated on Semoran Boulevard. A site plan for Lot 3B is included in this Preliminary Development Plan. At a future date, a site plan will be submitted for the vacant outparcel, Lot 3A. The site plans for the self-storage facility and the hotel are designed so that the parcel can be further subdivided into separate lots at some time in the future.

The site plan for Lot 3B includes the hotel and self-storage facility. A service driveway\road connects McVilla Avenue to the western end of Lot 3B and to an outparcel in Lot 3A. A multi-tenant monument sign will be placed in a sign easement at the northeast corner of Lot 3A, and dedicated to the Lot 3B owner.

At four stories, the hotel includes 91-lodging units and an outdoor pool. At three stories, the 60,732 square feet self-storage facility will include outdoor storage for recreational vehicles, trucks and other equipment. Located behind the Aldi Grocery Store and the RaceTrac on East Semoran Boulevard, the hotel and self-storage facility have a proposed connection to Semoran from the private driveway, McVilla Avenue.

Section 2.02.01(A) of the City's Land Development Code, mandates a maximum building height of 35' for all districts. On December 13, 2016, the Planning Commission approved a special exception to

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allow a maximum building height of fifty-five (55) feet for the hotel. The self-storage facility is in accordance with the previously mentioned building height rule of 35'. The hotel is proposed to have a height of 53 feet.

The hotel site contains 106 parking spaces of which five are handicapped spaces. And the self-storage facility contains 67 parking spaces of which two are handicapped spaces. In total, the applicant proposes 69 more parking spaces than what is required by the Land Development Code. The applicant has not declared whether joint parking will be allowed between the hotel and self-storage sites, but that capability exists as Lot 3B will occur under one ownership.

Access to the site is via a single full access points on US 441/Semoran Boulevard at McVilla Avenue, a signalized intersection. McVilla Avenue dead ends into this project and provides access to US 441/Semoran Boulevard for Aldi on the west and RaceTrac on the right.

A. Road Jurisdiction.

- 1. US 441/Semoran Boulevard State Road.
- 2. McVilla Avenue Private.
- 3. A cross-access easement provides connection between Lot 3A and the Aldi lot, connecting to Semoran Blvd.
- B. The project is anticipated to generate 71 PM Peak Hour trips. All project generated traffic is anticipated to exit the site to US 441/Semoran Boulevard, half heading east and half heading west. Sufficient capacity exists to accommodate the addition of trips generated by this project.
- C. Road/Intersection Improvements. No roadway or intersection improvements are required.

Stormwater run-off and drainage will be accommodated by an on-site retention pond located on the south portion of the project site abutting residential uses/districts and surrounded by a 6-foot tall aluminum fence. The on-site stormwater management system is designed according to standards set forth in the Land Development Code.

The site plan shows that parking lots and buildings are proposed to be lined with predominantly Live Oaks and Slash Pines. Live oaks are shown, in addition to a 6-foot tall masonry, concrete or brick wall on the southern boundary and portion of the eastern boundary line abutting residential zoning districts. The planting materials are consistent with the standards set forth in Ordinance No. 2069.

Four hundred (400) square feet of area within the proposed outparcel on the northeastern portion that abuts Semoran Boulevard is designated as an area for multitenant monument signage. The Lot 3A outparcel will be created by plat at the time of Final Development Plan. Signage for this development will be permitted separately and must comply with Article VIII of the City's Land Development Code.

The Development Review Committee recommends approval of the Fairfield Inn and Self-Storage Preliminary Development Plan, subject to the findings of this staff report.

Staff recommended the Planning Commission find the Fairfield Inn and Self-Storage Preliminary Development Plan consistent with the Land Development Code and Comprehensive Plan; and recommend approval of Preliminary Development Plan Subdivision Plan and Site Plan, subject to the findings of this staff report for the property owned by Farish Enterprises, LLC, and located at 1616 East Semoran Boulevard.

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

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.

Chris Blurton, Interplan LLC, 604 Courtland Street, Suite 100, Orlando, stated he represented the owner, supported the staff report, and was available to answer any questions.

In response to a question by Ms. Laurendeau, Mr. Moon stated that the current Preliminary Development Plan is consistent with the initial concept plan.

In response to a question by Ms. Laurendeau, Mr. Blurton stated that the building height code limitation of 35 feet contained does not apply to appurtenances usually required to be placed above the roof level and not intended for human occupancy such as elevator shafts.

In response to concerns expressed by Mr. Sprinkle regarding buffering of the adjacent residential properties, Mr. Blurton stated they wanted to be good neighbors. He stated that there are no windows on the east side of the building. There is a large 150' retention pond and many trees on the south side of the property; and the building would be approximately 100' feet from the adjacent homes.

Mr. Moon added that, if needed, more trees can be added to the Final Development Plan; however, the final development plan goes directly to City Council after the Development Review Committee reviews the plan.

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

Motion:

Butch Stanley made a motion to find the Fairfield Inn and Self-Storage Preliminary Development Plan consistent with the Land Development Code and Comprehensive Plan and compatible with the surrounding area; and recommend approval of Preliminary Development Plan Subdivision Plan and Site Plan, subject to the findings of this staff report for the property owned by Farish Enterprises, LLC, and located at 1616 East Semoran Boulevard. Motion seconded by Linda Laurendeau. Aye votes were cast by James Greene, Linda Laurendeau, Roger Simpson, John Sprinkle, and Butch Stanley (5-0). (Vote taken by poll.)

QUASI-JUDICIAL – FINAL DEVELOPMENT PLAN – GREATER FAITH WORLD CENTER, INC., PHASE 1 - Chairperson Greene stated this is a request to find the Greater Faith World Center, Phase 1 Final Development Plan consistent with the Land Development Code and Comprehensive Plan, and recommend approval of the Greater Faith World Center, Phase 1 Final Development Plan, subject to the findings of this staff report for the property owned by Center of Faith Church, Inc. and located at 700 Vick Road.

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 ex parte communications occurred.

<u>Staff Presentation</u>: Bobby Howell, AICP, Senior Planner, stated this is a request to find the Greater Faith World Center, Phase 1, Final Development Plan consistent with the Land Development Code and Comprehensive Plan, and recommend approval of the Greater Faith World Center, Phase 1 Final Development Plan, subject to the findings of this staff report for the property owned by Center of Faith Church, Inc. and located at 700 Vick Road. The applicant/engineer is Kenneth H. Ehlers, P.E. The land use is Institutional/Public Use and the zoning is PO/I (Professional Office/Institution). The existing use and proposed use is a church with a building size of 10,669 sq. ft. The tract size is 3.25 +/- acres.

The applicant has submitted a Final Development Plan for a 10,669 square foot church. The subject property is located at 700 Vick Road, at the northeast corner of the intersection of Martin Street and Vick Road, south of Apopka High School. The subject property is approximately 3.25 acres in size and is zoned PO/I (Professional Office/Institutional District). The Final Development Plan is for Phase 1 of the Greater Faith World Center church. Phases II and III appear on the development plan for information and planning purposes only, and will require a Final Development Plan approval from the City Council at such time each phase moves forward. There is an existing two-story residence on the property that will be used as a parsonage.

A total of 106 parking spaces will be provided for the church building. Five parking spaces are reserved as a handicapped parking spaces.

Access to the site is provided via a full access point located on Martin Street which lines up with the high school entrance, and a right-in/right-out on Martin Street, approximately 120-feet west of the right-in/right-out. An additional entrance consisting of a right-in/right-out is proposed on Vick Road.

TRANSPORTATION:

- A. Road Jurisdiction.
 - 1. Martin Street City of Apopka
 - 2. Vick Road City of Apopka.
- B. A Traffic Impact Analysis (TIA) was not required for this project because it is expected to generate less than 400 daily trips. The trip generation is anticipated to generate 97 daily trips and 6 PM Peak Hour trips.
- C. Road/Intersection Improvements. A signal at the intersection of Vick Road and Martin Street has been warranted and will be installed by the City. The Church has conveyed right-of-way to the City along Martin Street to accommodate a slight realignment of the intersection at the time of the signal installation.

The architectural elevations provided for the church building propose a one story building with architectural design elements including a porte-cochere, an architectural grade composition asphalt shingle roof, eifs, and stone veneer provided around the perimeter of the building. The building exhibits high quality architectural elements that are required in the Development Design Guidelines.

Stormwater run-off and drainage will be accommodated onsite with a dry stormwater retention pond that is located in the southwestern corner of the site along Vick Road.

The applicant has provided a detailed landscape and irrigation plan that complies with the requirements of the City's Land Development Code. The planting materials and irrigation system design are consistent with the water-efficient, Florida-friendly landscape standards set forth in Ordinance No. 2069.

In lieu of a masonry or brick wall along the southern property line, a 25-foot wide area of existing trees and landscaping will be preserved to provide a buffer for the adjacent residential neighborhood to the south. A standard five-foot wide buffer is provided along the eastern property line. A standard ten-foot wide buffer will be provided along Vick Road and Martin Street.

A tree mitigation payment will be assessed to mitigate existing trees that are proposed to be removed.

Total inches on-site:	1,440
Total inches removed	540
Total inches retained:	900
Total inches added:	178
Total inches post development:	1,078

The Development Review Committee recommends approval of the Greater Faith World Center, Phase 1 Final Development Plan, subject to the findings of this staff report.

Staff recommended the Planning Commission find the Greater Faith World Center, Phase 1 Final Development Plan consistent with the Land Development Code and Comprehensive Plan, and recommend approval of the Greater Faith World Center, Phase 1 Final Development Plan, subject to the findings of this staff report for the property owned by Center of Faith Church, Inc. and located at 700 Vick Road.

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 Comprehensive Plan and Land Development Code.

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.

The Petitioner did not have a presentation.

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

Motion:

John Sprinkle made a motion to find the Greater Faith World Center, Phase 1 Final Development Plan consistent with the Land Development Code and Comprehensive Plan, and recommend approval of the Greater Faith World Center, Phase 1 Final Development Plan, subject to the findings of this staff report for the property owned by Center of Faith Church, Inc. and located at 700 Vick Road. Motion seconded by Roger Simpson. Aye votes were cast by James Greene, Linda Laurendeau, Roger Simpson, John Sprinkle, and Butch Stanley (5-0). (Vote taken by poll.)

QUASI-JUDICIAL – PLAT – SAN SEBASTIAN RESERVE - Chairperson Greene stated this is a request to find the San Sebastian Reserve – Plat to be consistent with the Preliminary Development Plan and Final Development Plan subject to revision to the FDP and Plat to reflect consistency with the northeast corner of the Master Plan\PDP -- Lots 101 to 105; and recommend approval of San Sebastian Reserve Subdivision – Plat subject to the Conditions of Approval for the property owned by A.D Raulerson, Sr. & A.D. Raulerson, Jr. and Curtis & Karen Pumphrey and located north of Lester Road and west of Rock Springs Road.

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 ex parte communications occurred.

Staff Presentation: Ms. Sanchez stated this is a request to find the San Sebastian Reserve – Plat to be consistent with the Preliminary Development Plan and Final Development Plan subject to revision to the FDP and Plat to reflect consistency with the northeast corner of the Master Plan\PDP -- Lots 101 to 105; and recommend approval of San Sebastian Reserve Subdivision – Plat subject to the Conditions of Approval for the property owned by A.D Raulerson, Sr. & A.D. Raulerson, Jr. and Curtis & Karen Pumphrey and located north of Lester Road and west of Rock Springs Road. The applicant is Apopka Development II, LLC, c/o Richard C. Wohlfarth, P.E. The existing use is vacant land and the proposed use is a single-family subdivision with 112 Lots, a pool facility, and a dog park. The land use is Residential Medium Low Density (0-7.5 du\ac) and the zoning is PUD (Planned Unit Development). The minimum lot width is 40' and the minimum lot size is 4,400 sq. ft. The tract size is 23.14 +/- acres.

Planning Commission reviewed and recommended approval of the San Sebastian Reserve Preliminary Development Plan PUD Master Plan\PDP on February 13, 2018. The Planning Commission role is to review the Plat for consistency with the PDP/PUD Master Plan, as the Planning Commission Chair is required to sign the Plat.

The site comprises 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. The proposed development, San Sebastian Reserve, is a private and gated subdivision of 112 detached, single family homes. All infrastructure, bufferyards, and other common areas will be maintained privately and by the Homeowners' Association.

The HOA will be responsible for maintaining the landscaping and irrigation within the public right-of-way portion of Sebastian Springs Way (Tract RW-1) until the properties on to the north and south side of the road develop, at the City may remove the landscaping or the adjacent property owners can agree to maintain.

The minimum setbacks applicable to this project are:

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

^{*}Front-entry garage must be setback a minimum of 25 feet (per PUD design standards).

Ingress/egress access points for the development will be via full access Lester Road and to Rock Springs Road (via Sebastian Springs Way.)

The applicant is in the process of obtaining an executed school Concurrency Mitigation Agreement (CMA) with Orange County Public Schools (OCPS) to address school impacts generated by this residential development. The plat shall not be recorded and no construction activity will occur until after an executed CMA with OCPS has been obtained.

The Conditions of Approval include: (1) the revision of the Final Development Plan and Plat for consistency with the Master Plan\Preliminary Development Plan for Lots 101 to 105; and (2) the HOA will be responsible for maintaining the landscaping and irrigation within the public right-of-way portion of Sebastian Springs Way (Tract RW-1) until the properties on to the north and south side of the road develop, at the City may remove the landscaping or the adjacent property owners can agree to maintain

The County was notified at the time of the plat application for this property through the DRC agenda distribution.

The Development Review Committee finds the San Sebastian Reserve – Plat to be consistent with the Preliminary Development Plan and Final Development Plan subject to revision to the FDP and Plat to reflect consistency with the northeast corner of the Master Plan\PDP -- Lots 101 to 105, and recommends approval of San Sebastian Reserve Subdivision – Plat subject to the Conditions of Approval.

Staff recommended the Planning Commission find the San Sebastian Reserve – Plat to be consistent with the Preliminary Development Plan and Final Development Plan subject to revision to the FDP and Plat to reflect consistency with the northeast corner of the Master Plan\PDP -- Lots 101 to 105; and recommend approval of San Sebastian Reserve Subdivision – Plat subject to the Conditions of Approval for the property owned by A.D Raulerson, Sr. & A.D. Raulerson, Jr. and Curtis & Karen Pumphrey and located north of Lester Road and west of Rock Springs Road.

The role of the Planning Commission is advisory to the City Council to approve or deny the proposed plat for San Sebastian Reserve Plat based on consistency with the approved San Sebastian Reserve PUD Master Plan/Preliminary Development Plan, Comprehensive Plan and Land Development Code and subject to PUD Ordinance No. 2634.

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.

MINUTES OF THE PLANNING COMMISSION REGULAR MEETING HELD ON JULY 10, 2018, AT 5:30 P.M.

Petitioner: Richard C. Wohlfarth, P.E., W.C. Group, LLC, 246 N. Westmonte Drive, Altamonte Springs, stated he represented the owner, supported the staff report, and was available to answer any questions.

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 San Sebastian Reserve – Plat to be consistent with the Preliminary Development Plan and Final Development Plan subject to revision to the FDP and Plat to reflect consistency with the northeast corner of the Master Plan\PDP -- Lots 101 to 105; and recommend approval of San Sebastian Reserve Subdivision – Plat subject to the Conditions of Approval for the property owned by A.D Raulerson, Sr. & A.D. Raulerson, Jr. and Curtis & Karen Pumphrey and located north of Lester Road and west of Rock Springs Road. Motion seconded by Butch Stanley. Aye votes were cast by James Greene, Linda Laurendeau, Roger Simpson, John Sprinkle, and Butch Stanley (5-0). (Vote taken by poll.)

OLD BUSINESS: None.

NEW BUSINESS: None

ADJOURNMENT: The meeting was adjourned at 6:02 p.m.

James Greene, Chairperson

James K. Hitt, FRA-RA
Community Development Director



CITY OF APOPKA PLANNING COMMISSION

X PUBLIC HEARING MEETING OF: August 14, 2018

SITE PLAN FROM: Community Development

SPECIAL REPORTS EXHIBITS: MEdTech Campus Overlay District

OTHER: Form Based Code

SUBJECT: KELLY PARK INTERCHANGE FORM-BASED CODE, EMPLOYMENT

DISTRICT'S MEdTech CAMPUS OVERLAY DISTRICT

REQUEST: RECOMMEND APPROVAL OF THE MEdTech CAMPUS OVERLAY

DISTRICT WITHIN THE KELLY PARK INTERCHANGE FORM-BASED

CODE (ARTICLE III, LAND DEVELOPMENT CODE)

SUMMARY:

The Kelly Park Interchange Form-Based Code was approved by the Apopka City Council on June 21, 2017. The Form-Based Code was developed to guide and regulate development within the Wekiva Parkway Interchange Plan area to achieve a specific urban form or character and physical urban form – such as building design and scale while placing less focus on land use or zoning.

This is in accordance with Objective 19 of the Future Land Use Element (Comp Plan) directs the City to implement a form-based code to further the Wekiva Parkway Interchange Plan; and, Objective 20 of the Comprehensive Plan, Future Land Use Element.

A primary purpose of the proposed development standards is to create a sustainable community in the Interchange area – a place where people can live, work, play and shop.

The proposed MEdTech Campus Overlay District is being created within the existing Employment District as a means to establish specific development criteria for a campus-type area for Medical, Educational and Technology. This overlay district standards include, but are not limited to: permitted uses, district size (40 to 100 acres), building materials, building step-backs, buffers, size, orientation, pedestrian, bicycle and auto connectivity, and other guidelines for the campus development.

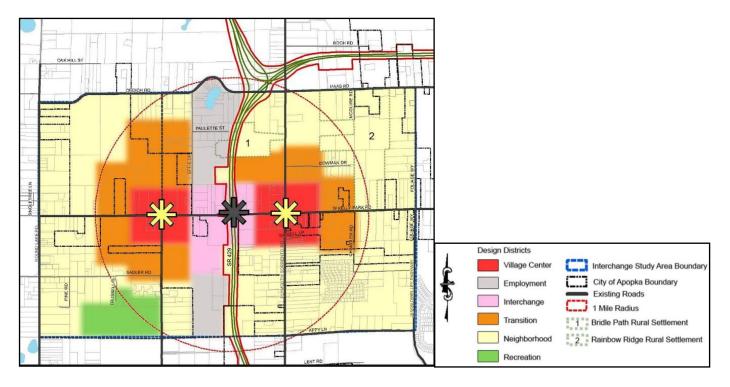
This MEdTech Overlay District is only applicable within the Employment District to the Kelly Park Interchange Form-Based Code. This area is west of S.R. 429, generally east of Effie Drive, and is both north and south of Kelly Park Rd, all within the Kelly Park Interchange Form-Based Code area. (Please see next page for the map)

DISTRIBUTION

Mayor Nelson Finance Director Public Services Director Commissioners HR Director Recreation Director City Administrator IT Director City Clerk Fire Chief

PLANNING COMMISSION – AUGUST 14, 2018 MEdTech CAMPUS OVERLAY DISTRICT PAGE 2

Form-Based Code development area map



PUBLIC HEARING SCHEDULE:

August 14, 2018 – Planning Commission (5:30 pm) September 5, 2018 – City Council (1:30 pm) September 19, 2018 – City Council (7:00 pm)

DULY ADVERTISED:

August 3, 2018 – Public Notice and Notification September 7, 2018 – Ordinance Heading Ad

RECOMMENDATION ACTION:

Find the MEdTech Campus Overlay District within Employment District of the Kelly Park Form-Based Code for the Wekiva Parkway Interchange Plan Area to be consistent with the Comprehensive Plan, and Recommend that City Council adopt this overlay district.

2.A MEdTech Campus Overlay District

As a means to enhance a campus like environment in coordination with staff, the primary intent of the MEdTech – Medical, Education & Technology Campus Overlay District is for the development of major educational, governmental and medical facilities and other complimentary and supporting uses such as office developments. The MEdTech Campus Overlay District encourages a campus-type character, which includes landscaped open space between buildings, a green buffer at the perimeter and uniform site design and details. Please refer to Appendix B for specific development standards for the size, orientation, massing and frontage design which will help deliver buildings whose scale and character are compatible with their urban context.

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Appendix B: MEdTech Campus Overlay District Development Standards

A. Permitted Uses

Uses allowed within the Institutional Campus Overlay District include the following:

- Hospitals
- Freestanding Emergency Departments
- Urgent Care Facilities
- Skilled Nursing Facilities
- Senior Housing/Assisted Living Facilities
- · Educational facilities/training
- Medical and Professional Office
- Imaging/Diagnostic Centers
- Surgery Centers
- Birthing Centers.
- Central Energy Plants (Hospitals)
- Parking structures
- Helipads are permitted and shall comply with FAA safety requirements.
- Other complementary Health & Wellness uses
- Public use (library, post office, Police, Fire and other municipal offices, and similar uses)

The following uses are permitted as accessory uses when contained within a primary structure:

- Commercial Retail
- Pharmacies
- Restaurants

Whenever there is uncertainty as to whether a use is permitted or not, or when a use is not listed the Community Development Director shall determine the classification.

B. District Size and Standards

- 1. The MEdTech Campus Overlay shall only be applied to property previously designated as "Employment Overlay District."
- 2. The minimum size for a MEdTech Campus Overlay District project shall be forty (40) contiguous acres; the maximum size shall be no more than one hundred (100) acres
- 3. Blocks do not have to be orthogonal
- 4. Internal private streets and drives shall be interconnected for vehicle, bicycle and pedestrian circulation
- 5. A proposed MEdTech Campus project shall contain multiple buildings, which may be developed in phases.

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C. Density, Intensity and Open Space Standards

Minimum and maximum intensity of development and open space requirements shall follow the Employment Character Zone listed in Table 4: Density, Intensity and Open Space.

D. Building and Floor Height

Maximum building height is listed below. Building height shall be measured in stories. Rooftop elements are allowed over the maximum number of stories as long as they do not exceed twenty (20) feet in height.

1. Building Height Min. N/A

Max. 8 stories

E. Site Design Standards

1. Building Setbacks

- a. Due to the campus confi gurati on, there are no minimum building setbacks or building frontage requirements required within the MEdTech Campus Overlay District. However, buildings shall be placed in a way to support pedestrian orientati on.
- b. When within ten (10) feet of a property line adjacent to a Neighborhood Character zone or single family zoned property, the floors above the third story shall be setback an additional ten (10) feet.

2. Building Alignment

Building facades facing internal private streets and drives shall primarily be parallel.

3. Building Frontage

As campus confi gurati ons, the purpose of the façade continuity along the street is not required. However, buildings shall be placed in a way to promote strong pedestrian and vehicular connecti ons.

4. Street Setback Zone

The intent of the street setback (the area between the back of the sidewalk and the street wall) is to provide a transiti on, both physical and visual, from the street to the campus. All campus perimeters fronting a public street shall include a street wall framing each entry with landscape buffers in between wall secti ons. The zone created by the setback should vary in design depending on the level of privacy desired along the campus perimeter with a fi ft y (50) percent street wall frontage requirement, unless a building is placed along the sidewalk. In lieu of street wall, if parking spaces are three (3) feet below the sidewalk, the street wall frontage requirement is considered met.

a. Elements within the street setback zone (landscaping and architectural features) shall comply with the vision triangle requirements using AASHTO standards.

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F. Building Design Standards

1. Architecture

There is not a requirement for a specific architectural style to be used. All architecture shall be uniform and complimentary across the campus.

2. Green Building

Green building principles related to energy efficiency, resource protection and environmental protection (e.g. reusable building materials, light colored roof materials, living roofs to treat stormwater, energy efficient windows, solar energy, etc.) set forth by agencies such as, but not limited to, the United States Green Building Council, the Florida Green Building Coalition and similar agencies are encouraged, not required.

3. Building Massing

Buildings shall respect and reflect pedestrian scale throughout the campus. Because of the unique nature of a campus-type development, the building massing standards for the MEdTech Campus Overlay District shall be reviewed on a case by case basis with the Community Development Director. Rendered building elevations shall be included with the Master Plan.

4. Facade Articulation

The standards contained in this section apply to all buildings and structures, including parking garages. The elements that make up a building facade are key components for defining the public realm. The façade design standards contained in this section are not intended to regulate style or appeal. The purpose of these standards is to ensure facades are designed to:

- Reduce the uniform monolithic appearance of large unadorned walls by requiring architectural detail;
- Increase public safety by designing buildings that provide human surveillance of the street.

Building facades along public or private streets and drives shall maintain a pedestrian scale and integrate the public and private spaces throughout the campus.

5. Building Entrances

- a. The main entrance of all buildings shall be oriented toward the internal private streets and drives.
- b. Where parking areas are located behind the building, a secondary entrance may be provided from the parking area into the building. Awnings, landscaping, and appropriate signage may be used to mark the secondary entrance.
- c. Pedestrian connections from the public sidewalk and parking areas to the building entrance shall be provided.

6. Windows and Doors

Development within the MEdTech Campus Overlay District shall meet the following standards:

a. Buildings are subject to glazing requirements and shall be reflective.

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KELLY PARK INTERCHANGE FORM-BASED CODE

- b. Non-Residential Upper Floors: The combined area of glass on all floors above the first divided by the total area of the building façade for those floors shall be no less than fifteen (15) percent.
- c. Windows and doors should be glazed in clear glass with no more than ten (10) percent daylight reduction (transmittance) for retail establishments, and fifty (50) percent for office uses. Glass block is not considered transparent and shall not count toward the minimum glazing requirement.
- d. Reflectance shall not exceed fifteen (15) percent.
- e. Stained or art glass shall only be permitted if consistent with the style of the building (churches, office, hospital, etc.).

7. Building Materials

Building materials that are visible from the street should not be selected on the basis of cost alone, but rather on compatibility with the building style and neighborhood character.

- a. Required Materials:
 - i. Concrete Masonry Units with Stucco
 - ii. Reinforced Concrete with Stucco
 - iii. Pre-Cast Concrete Panels
 - iv. Tilt up Concrete
 - v. Brick
 - vi. Stone
 - vii. Glass
 - viii. Steel

8. Roof Design

- a. Roofs shall be in scale with the building mass.
- b. Building elevations shall have a defined top edge consisting of, but not limited to, cornice treatments, roof overhangs and brackets.
- c. Buildings with flat roofs shall have a cornice treatment or a parapet. The cornice shall be at least eighteen (18) inches in height. Parapet shall be a minimum of two (2) feet in height.
- d. Roof materials shall be light-colored or a planted surface (green roof).
- e. Prohibited roof types and materials:
 - i. Mansard roofs and canopies
 - ii. Roofs with a 2/12 pitch or less without full parapet coverage
 - iii. Back-lit awnings used as a mansard or canopy roof

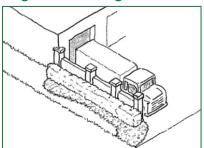
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9. Service Areas

The following standards apply to non-residential developments.

- a. To the extent possible, areas for outdoor storage, trash collection, and loading shall be incorporated into the primary building design (see Figure 36) and shall not be located within 50 feet of single family residential lots.
- b. Loading areas, outdoor storage, waste disposal, mechanical equipment, satellite dishes, truck parking, and other service support equipment shall be located behind the building line and shall be fully screened from the view of the street.
- c. Mechanical equipment should be integrated into the overall mass of a building by screening it behind parapets or by recessing equipment into hips, gables, parapets, or similar features.

Figure 36. Loading Area Screening

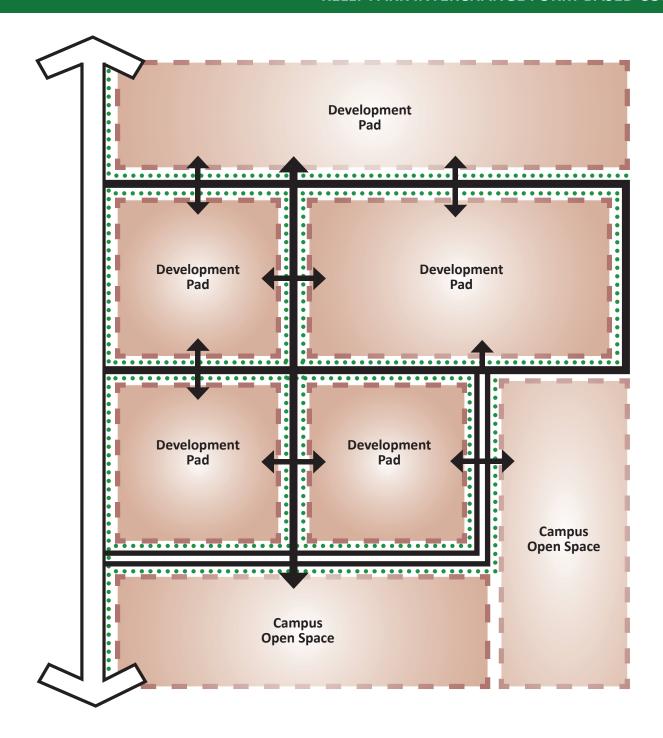


G. Access, Circulation and Parking Requirements

1. On-Site Circulation

- a. New developments must seek to create a balanced transportation system that accommodates pedestrians, bicyclists, and transit riders, as well as motor vehicles, and provides a system of connections to maximize choices for all modes of travel. The Typical Campus Circulation Diagram provides an illustrative example of pedestrian, transit and parking linkages.
- b. The use of joint access driveways is required between commercial sites to reduce the number of access points and driveways that cross sidewalks.
- c. Safe pedestrian connections shall be provided throughout the interior of development sites.
- d. Direct pedestrian access shall be provided from the principal entrance of the building to the sidewalk on the closest public right-of-way.
- e. Additional/secondary pedestrian access to businesses may be provided from parking facilities directly to ground floor uses, either through rear building entrances, sidewalks along the perimeter of buildings, or by pedestrian alleyways which connect the rear parking lots to the sidewalks along the front street.
- f. Pedestrian walkways within the development shall be differentiated from driving surfaces through a change in materials (including thermoplatic paint) and/or grade elevation.
- g. Crosswalks are required wherever a pedestrian sidewalk or alleyway intersects a vehicular area. All crosswalks shall be a minimum of five (5) feet wide and shall be demarkated for pedestrians.
- h. All new development shall provide connections to existing bike and pedestrian pathways and to bus stops and transit facilities.
- i. Installed bicycle racks shall be designed to accommodate the minimum number of bicycles as set forth in the City of Apopka Land Development Code.
- j. Bicycle racks shall be permanently fixed to the ground through mechanical fasteners or the use of concrete footings.

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TYPICAL CAMPUS CIRCULATION DIAGRAM



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- k. The design of bicycle racks placed within the development site shall coordinate with the overall design scheme of the subject site in terms of color and material. Bike racks placed within the right-of-way shall comply with the requirements of Section K, Street Standards.
- I. Location of bus stops shall be identified on the Development Plans.

2. Location of Parking Facilities

- a. Surface parking lots shall be located adjacent to buildings so that the parking areas are screened from public sidewalks and streets, including, to the extent feasible, the Wekiva Parkway, by street walls or landscaped buffer.
- b. Any surface parking areas located along a public street shall be screened from street view by a street wall or landsacped buffer.
- c. Parking garages shall be designed to blend with adjacent architecture so as to not appear like a parking garage. Awnings and faux windows are sample add-ons.
- d. Electric charge stations shall be encouraged in all parking lots and/or garages.

3. Parking for Single Uses

Off-street parking requirements for the MEdTech Campus Overlay District shall comply with the minimum requirements listed in Section 6.03.00 of the City of Apopka Land Development Code.

H. Landscape, Buffering and Screening

Landscape and irrigation shall be consistent with Section 5.01.00 of the City of Apopka Land Development Code, except for the following:

1. Parking Lot Landscaping and Lighting

- a. Large parking lots shall be visually and functionally segmented into smaller lots with landscape island and canopy trees. The design of parking areas should avoid the appearance of large masses of parked cars. Landscape strips at least ten (10) feet wide shall be intermittently provided between parking bays of either head-in or diagonal parking. Trees shall be planted a maximum of fifty (50) feet on center along the length of the landscape strip.
- b. Parking lot layout, landscaping, buffering, and screening should minimize direct views of parked vehicles from streets and sidewalks; prevent spill-over light, glare, noise, and exhaust fumes from infringing on adjacent properties; and provide the required tree canopy shade. The landscape buffers will provide intermittent view corridors of campus buildings from streets and sidewalks.
- c. Any landscaping adjacent to the front of a parking space shall include a two (2) foot wide strip of gravel, mulch, or grass, so that the front of the parked vehicle can overhang without interfering with taller plantings.
- d. Parking spaces adjacent to a sidewalk must have wheel stops placed two (2) feet from the sidewalks so that the car overhang does not reduce the width of the sidewalk.
- e. Parking lot light fixtures shall be designed so that light is directed onto the parking area and away from neighboring residential lots.
- f. The design, color, shape, style, and materials of the fixtures shall match or complement the style and materials of the buildings served.

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g. Lighting fixtures in parking lots adjacent to residential zones shall not exceed twenty (20) feet in height as measured from the adjacent grade to the top of the light fixture.

2. Buffers and Screening

Buffers shall be provided as required by Section 5.01.00 of the Land Development Code, except that no buffer shall be required between the building and the street, or between similar uses unless specifically required as part of a Public Hearing review.

Urban street walls are the only type of fence/wall allowed facing streets and alleys. A street wall shall be required along fifty (50) percent of the perimeter of a surface parking lot that abuts a street or alley. Whenever a street wall is provided, it shall meet the following standards:

- a. The wall shall be a minimum of three (3) feet and a maximum of five (5) feet in height.
- b. Street walls may be constructed of wrought iron, brick, masonry, stone, concrete, powder-coated aluminum, a combination of materials, i.e. split rail fence with stone columns or other decorative materials that complement the finish on the primary building. Chain link and PVC street walls shall be prohibited.
- c. When a parking lot abuts a public right-of-way, ground cover, hedges, or shrubs shall be installed in the street setback zone. The street setback zone landscaping shall be a minimum of three (3) feet wide. The area in front of a street wall may be landscaped or used to expand the public sidewalk.
- d. Breaks should be permitted in the street wall to provide pedestrian access to the site and for the purpose of tree protection.

I. Stormwater

Developers are encouraged to connect to a master stormwater system, rather than providing an on-site facility. If a master stormwater system is anticipated, site specific ponds shall be removed and connection to the master system shall be required. Until such time as a master system is available, development is subject to the following requirements:

- 1. All retention areas shall be incorporated into the overall design of the project.
- 2. Dry stormwater areas shall be designed as amenities, and count towards open space.
- 3. Wet bottom ponds may only be allowed subject to Special Exception approval.
- 4. Landscaping is required to soften the visual appearance of dry retention pond edges. Native trees and shrubs shall be used. No exotic invasive plants are permitted.
- 5. Where slopes require fencing, only ornamental metal will be allowed.
- 6. To reduce the size of stormwater ponds that are not designed as amenities, the use of porous concrete, underground storage, and exfiltration is greatly encouraged, but not required.

J. Signs

Development within the MEdTech Campus Overlay District shall include a Master Sign Plan with the Master Plan submittal.

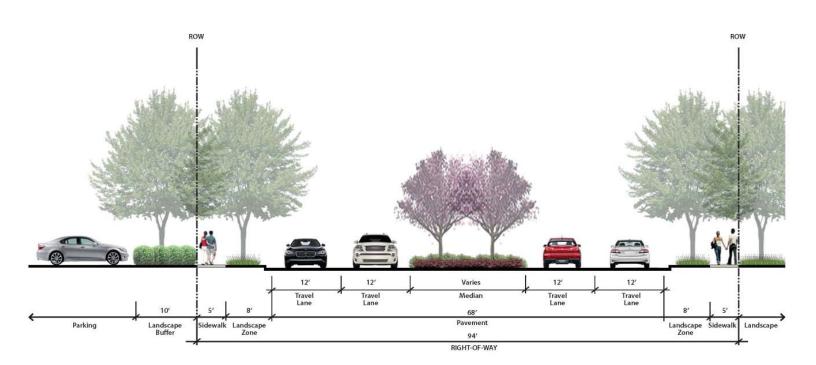
K. Street Standards

1. Complete Streets

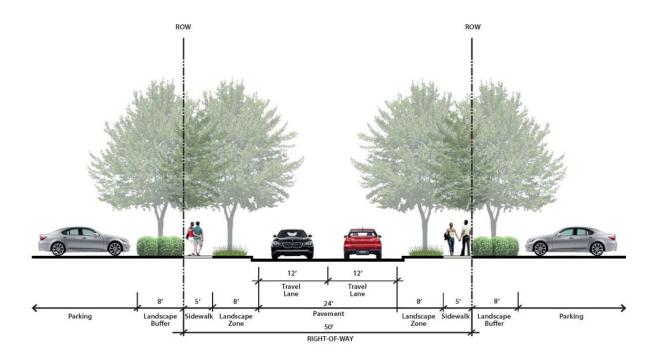
Private internal streets, drives and pedestrian facilities should incorporate the Complete Streets design concept wherever possible. Complete Streets serves the transportation needs of transportation users for all ages and abilities, including but not limited to pedestrians, bicyclists, transit riders, motorists, and freight handlers.

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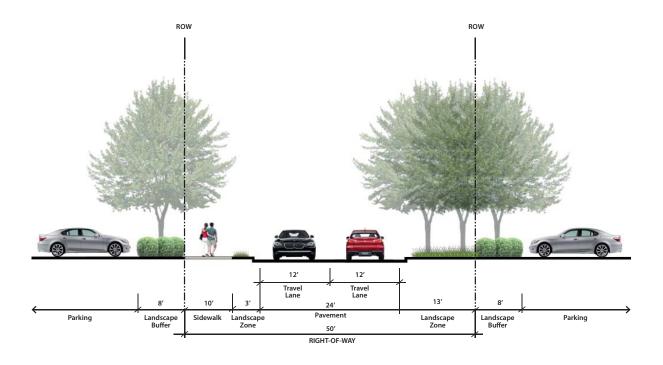
a. Typical cross sections for streets permitted within the MEdTech Campus Overlay District are found below.



TYPICAL INTERNAL PRIMARY ROAD SECTION



TYPICAL INTERNAL SECONDARY ROAD SECTION

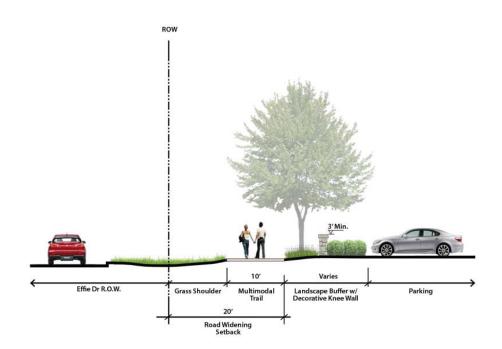


TYPICAL INTERNAL SECONDARY ROAD SECTION Option #2

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2. Effie Drive Streetscape

a. Effie Drive shall be improved using the street standards for Type D, Option 1, see Typical Effie Drive cross-section.



TYPICAL EFFIE DRIVE SECTION

3. Street Trees

- a. A four-(4) inch canopy tree (minimum caliper at planting) shall be planted every forty (40) feet on center in the landscape zone and central median.
- b. There shall be a minimum of twenty-fi ve (25) square feet of mulch around each tree, unless a tree well is used.
- c. The recommended street trees include D. D. Blanchard Magnolia, Live Oak Cultivar and palm trees. Alternative species may be approved through the site plan review process.
- d. Palm trees shall be limited to forty (40) percent of the total tree requirement.
- e. The use of structural soils (aggregate based soil mix) or modular suspended pavement systems such as Silva Cell (www.deeproot.com) should be considered for street trees. Both methods have been proven to be effective in areas with limited planting space. Additionally, these planting techniques provide a sub-base that can support the above ground infrastructure, promote healthy root growth, and reduce root damage to streets, sidewalks and utilities.
- f. The use of root barriers (e.g. BioBarrier® or DeepRoot Tree Barrier systems) should be considered to prevent damage to utility pipes from tree roots,. When installed correctly, a root barrier forces roots to grow downward against the wall surface of the barrier and away from streets, sidewalks and utilities. Each method will increase the cost of tree installation, but will minimize the need for future street, sidewalk and utility repairs as well as corresponding damage to trees during maintenance acti vities.

4. Sidewalks and Crosswalks

- a. Constructi on specifi cati ons for public sidewalks can be requested from City of Apopka Engineering Department. Sidewalk and crosswalks within internal private streets and drives shall also meet the following standards:
 - i. Crosswalks are required at all intersections of primary and secondary roads.
 - ii. All internal private streets and drives shall have, at minimum, painted crosswalks consistent with FDOT standards.

5. Street Furniture

- a. Street furniture includes benches, waste receptacles, and bike racks. Developers will be required to provide the required street furniture along all primary internal private streets and drives within their project. It shall be the property owners' responsibility to ensure proper maintenance of the street furniture within their project. Similar themed furniture is recommended as to be approved with the site plan.
- b. Developers are encouraged to place the required bike racks within the primary internal private streets and drives between the curb and required sidewalk. The bike rack shall be set perpendicular to the street so that parked bicycles do not impede pedestrian circulation. Required bike parking may also be installed within public open spaces.

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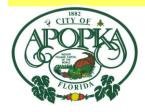
6. Street Lighting

- a. Lighting shall address both pedestrian as well as vehicular areas and shall be appropriately designed for the width of the roadway, as follows:
 - i. Street lights shall be installed in all character zones. Pedestrian lighting may be provided in the Institutional Campus Overlay District.
 - ii. All lights shall be LED, and shall have Dark Sky optics and cut-off luminaries to reduce light pollution.
 - iii. Double head streetlights may be placed in the landscaped median.
 - iv. Developers may work with Duke Energy to obtain a type of street lights suitable for their project. The design will be reviewed in conjunction with the development plan.

L. Open Space Requirements

- 1. Open space includes active and passive outdoor recreational areas and visually open areas designed to be used by the general public.
- 2. Open space shall be provided at a minimum of twenty (20) percent.
- 3. Open space areas shall include the following:
 - a. Amenitized stormwater areas, as per Section I, Stormwater.
 - b. Landscaped areas.
 - c. Pedestrian access areas such as plazas, sidewalks, bike paths and walkways.

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CITY OF APOPKA PLANNING COMMISSION

X PUBLIC HEARING

SITE PLAN

SPECIAL REPORTS

X OTHER: PUD Master Plan

MEETING OF: August 14, 2018

FROM: Community Development

EXHIBITS: Zoning Report

Vicinity Map

Adjacent Zoning Map Adjacent Uses Map Existing Use Map PUD Master Plan Comparison Table

SUBJECT: AMENDMENT TO PUD ZONING AND MASTER PLAN – AVIAN POINTE

RECOMMEND APPROVAL OF THE AMENDMENT TO THE PUD ZONING

AND MASTER PLAN FOR AVIAN POINTE

SUMMARY:

OWNER: Apopka Clear Lake Investments, LLC

APPLICANT: Frank Bombeeck

LOCATION: East side of SR 429, north of Lust Road

PARCEL ID NUMBERS: 07-21-28-0000-00-002; 07-21-28-0000-00-015; 07-21-28-0000-00-064

EXISTING USE: Vacant

FLUM DESIGNATION: Residential Low Density, Residential Medium Density

CURRENT ZONING: PUD (Planned Unit Development)

PROPOSED

DEVELOPMENT: 56 single family homes; 222 townhomes, 480 apartments

PROPOSED ZONING: Planned Unit Development (PUD)

TRACT SIZE: 127.21 +/- acres

DISTRIBUTION

Mayor NelsonFinance DirectorPublic Services DirectorCommissionersHR DirectorRecreation DirectorCity AdministratorIT DirectorCity Clerk

Community Development Director Police Chief Fire Chief

SUMMARY: The subject property is approximately 127.21 acres in size and is zoned PUD (Planned Unit Development) and has a future land use designations of Residential Medium Density and Residential Low Density. The subject property is located on the east side of SR 429, north of Lust Road, and south of Peterson Road. Access to the development is proposed via Lust Road and Peterson Road.

The original Avian Pointe PUD Master Plan was approved via Ordinance No. 2433 and permitted up to 758 residential units consisting of single-family, townhomes, apartments, a shared use recreation area, and a flex use parcel consisting of either a school or daycare facility, senior housing facility, or a 100 room boutique hotel. The PUD Master Plan was amended in 2017 to allow the apartment units to be up to four stories, not to exceed 50-feet in height. The applicant is requesting an amendment to the PUD (Planned Unit Development) zoning and Master Plan, and proposed revisions to the Master Plan appear in the attached phase-by-phase comparison table.

The amendment to the PUD Zoning and Master Plan does not propose an increase in the total amount of residential units that are permitted pursuant to Ordinance No. 2433. Development design standards from the current Master Plan are carried over to the Proposed Master Plan.

Residential development profile:

Unit type	Number of units	Minimum Livable Area (Square Feet)	Building Height
Single Family (75' width; 8,400 sq.ft. min.) (60-feet by 125-feet, 60-feet by 132-feet, 70-feet by 120-feet)	58 - <u>56</u>	1,700	35-foot maximum height
Townhomes:	216 <u>222</u>	1,350	3 stories; 45-feet
Apartments:	484 <u>480</u>		4 stories; 50-feet
1-Bedroom:		750 minimum	
2-Bedroom: 3-Bedroom:		900 minimum	
		1,050 minimum	
Total Residential units:	758		

- B. Deviations. The applicant is requesting one deviation 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, Land Development Code Section 2.02.18.D.11. 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. The developer is proposing 39, 60-foot wide lots with minimum lots sizes of 7,500 square feet. 17 units are proposed at 75-feet in width.
- C. Justification for Deviations/Development Standard. The following justifications are provided for the deviations that is proposed.

- 1. Dedication of right-of-way The PUD Master Plan proposes the dedication of right-of-way to the City referred to as Grand Avian Parkway on the PUD Master Plan which will connect Lust Road to Peterson Road. The right-of-way is proposed to range in width from 75-feet to 80-feet. An 11-foot wide bike path/trail will be provided on the west side of the right-of-way. A 5-foot wide sidewalk will be provided on the east side. A landscape median ranging in width between 10-feet and 15-feet is provided.
- 2. An improved recreation amenities package is proposed The PUD Master Plan proposes the construction of a 7.071 acre Community Park and Recreation area that will consist of a tot lot, restrooms, basketball courts, tennis courts, soccer field, and baseball field.
- 3. Abutting Site Characteristics The PUD Master Plan proposes a 20-foot landscape buffer between the proposed single-family homes and the Clear Lake Estates subdivision to the east. The development will not be visible from the homes within Clear Lake Estates and separation between the larger lots in Clear Lake Estates and the smaller lots within the Avian Pointe PUD will be provided with the landscape buffer. The developer is proposing 75-foot wide lots adjacent to the Clear Lake Estates subdivision. 60-foot wide lots will be provided adjacent to Clearwater Lake and within the interior of the single-family subdivision.
- 4. Protection of Environmentally Sensitive Areas and Preservation of Open Space The PUD Master Plan protects wetlands adjacent to Clearwater Lake. Single-family homes will be setback approximately 190-feet from Clearwater Lake.
- 5. Flex Zone Development tract The PUD Master Plan reserves a 14.998 acre tract for either of the following uses: 1) School or daycare facility, 2) Senior Housing Facility, or 3) 100 room boutique hotel. The School site was expanded to

<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.

<u>COMPREHENSIVE PLAN COMPLIANCE</u>: The proposed use of the property is consistent with the Low Density and Medium Density Residential Future Land Use designation and is consistent with the Land Development Code.

SCHOOL CAPACITY REPORT: Per Orange County Public Schools, the project is vested to satisfy capacity, however there are outstanding concurrency issues that will be required to be satisfied prior to approval of a residential plat or prior to a final development plan for a multi-family apartment site plan..

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 parcels are not adjacent to unincorporated Orange County.

PUBLIC HEARING SCHEDULE:

August 14, 2018 - Planning Commission (5:30 pm) September 5, 2018 - City Council (1:30 pm) - 1st Reading September 19, 2018 - City Council (7:00 pm) - 2nd Reading

DULY ADVERTISED:

August 3, 2018 – Public Notice; Letter, Poster

RECOMMENDATION ACTION:

The **Development Review Committee** finds the proposed amendment to the PUD zoning and Master Plan consistent with the Comprehensive Plan and Land Development Code and recommends approval of the Avian Pointe Planned Unit Development Master Plan.

Recommended Motion: Recommend to approve the amendment to the PUD zoning and Master Plan for Avian Pointe based on the findings and facts presented in the staff report and exhibits.

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)	Mixed Use (0-5 du/ac) Rural	Mixed-EC (City) A-1 (County)	Vacant, Agricultural buildings and uses
East (City)	Low Density Residential (0-5 du/ac)	R-1AA	Clear Lake Estates subdivision
South (City)	Low Density Residential (0-5 du/ac); Residential Low Suburban	R-1AA, R-1	Vacant, Clearwater Lake
West (City)	N/A	N/A	SR 429 right-of-way

LAND USE &

TRAFFIC COMPATIBILITY: The property is accessed via Lust Road and Peterson Road. Internal

streets are public and private and will be owned and maintained by the City of Apopka and a yet to be established homeowners association. Future land use designations and zoning categories assigned to properties to the north, south, east, and west are

predominantly residential.

COMPREHENSIVE

PLAN COMPLIANCE: The proposed PUD zoning and Master Plan is compatible with

policies set forth in the Comprehensive Plan.

ALLOWABLE

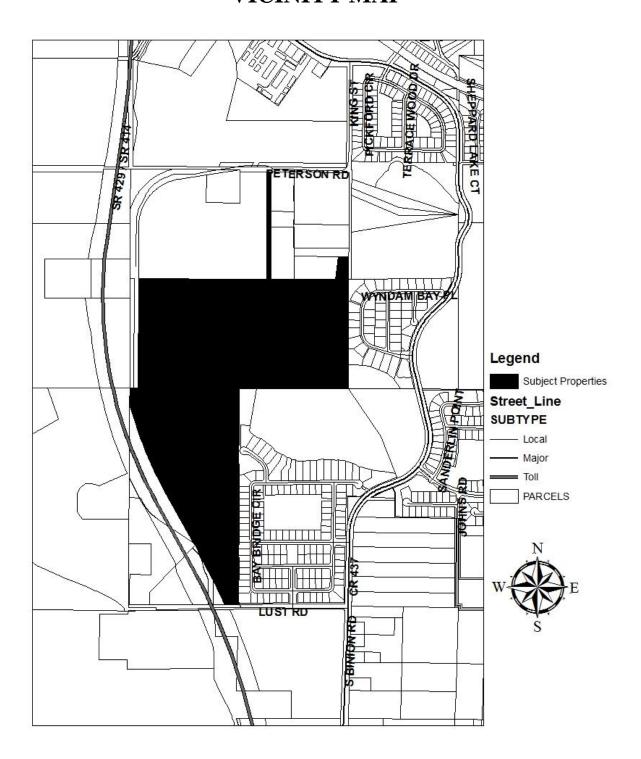
USES: Uses as set forth within the Planned Unit Development Master Plan.

Project: AVIAN POINTE

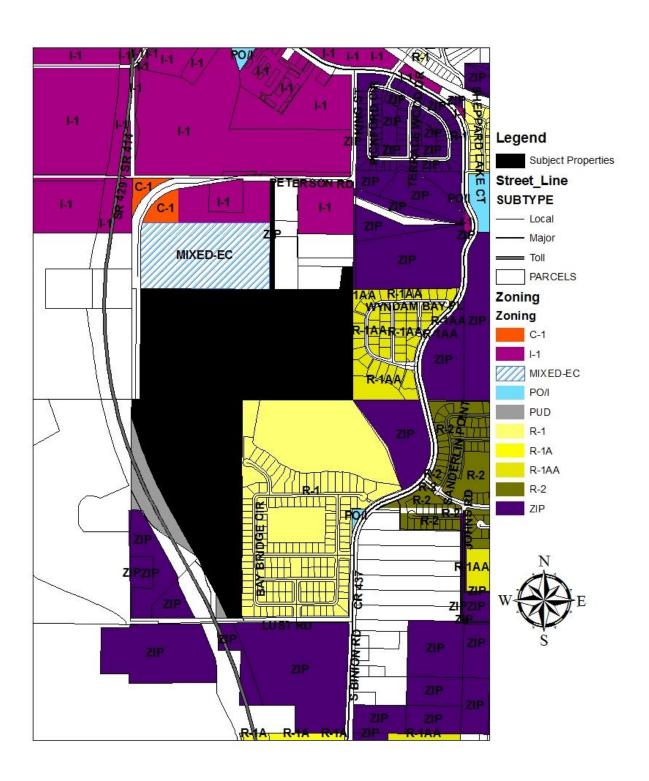
Owned by: Apopka Clear Lake Investments, LLC Located: East side of SR 429, north of Lust Road

Parcel ID#s: 07-21-28-0000-00-002; 07-21-28-0000-00-015; 07-21-28-0000-00-064

VICINITY MAP

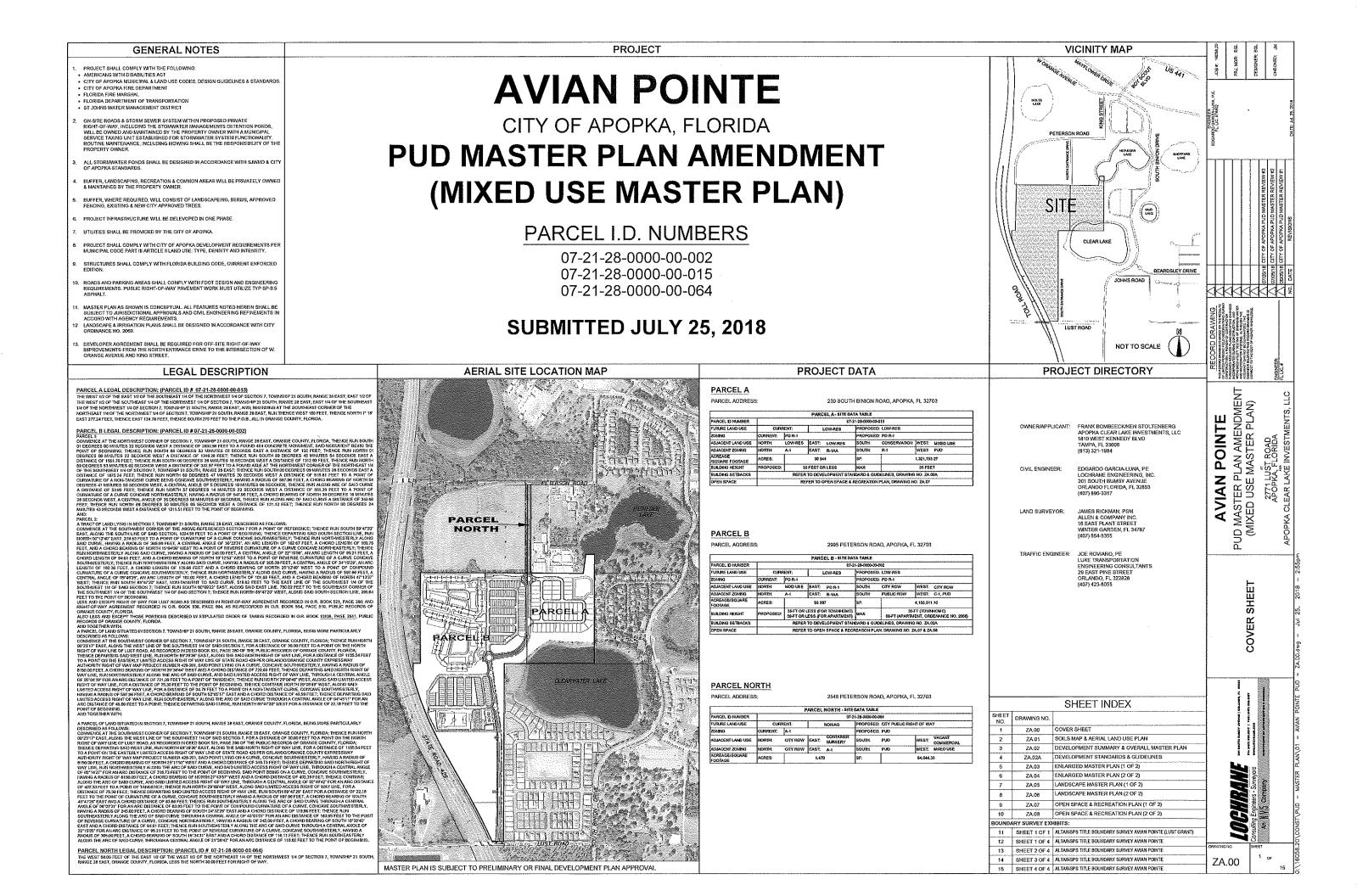


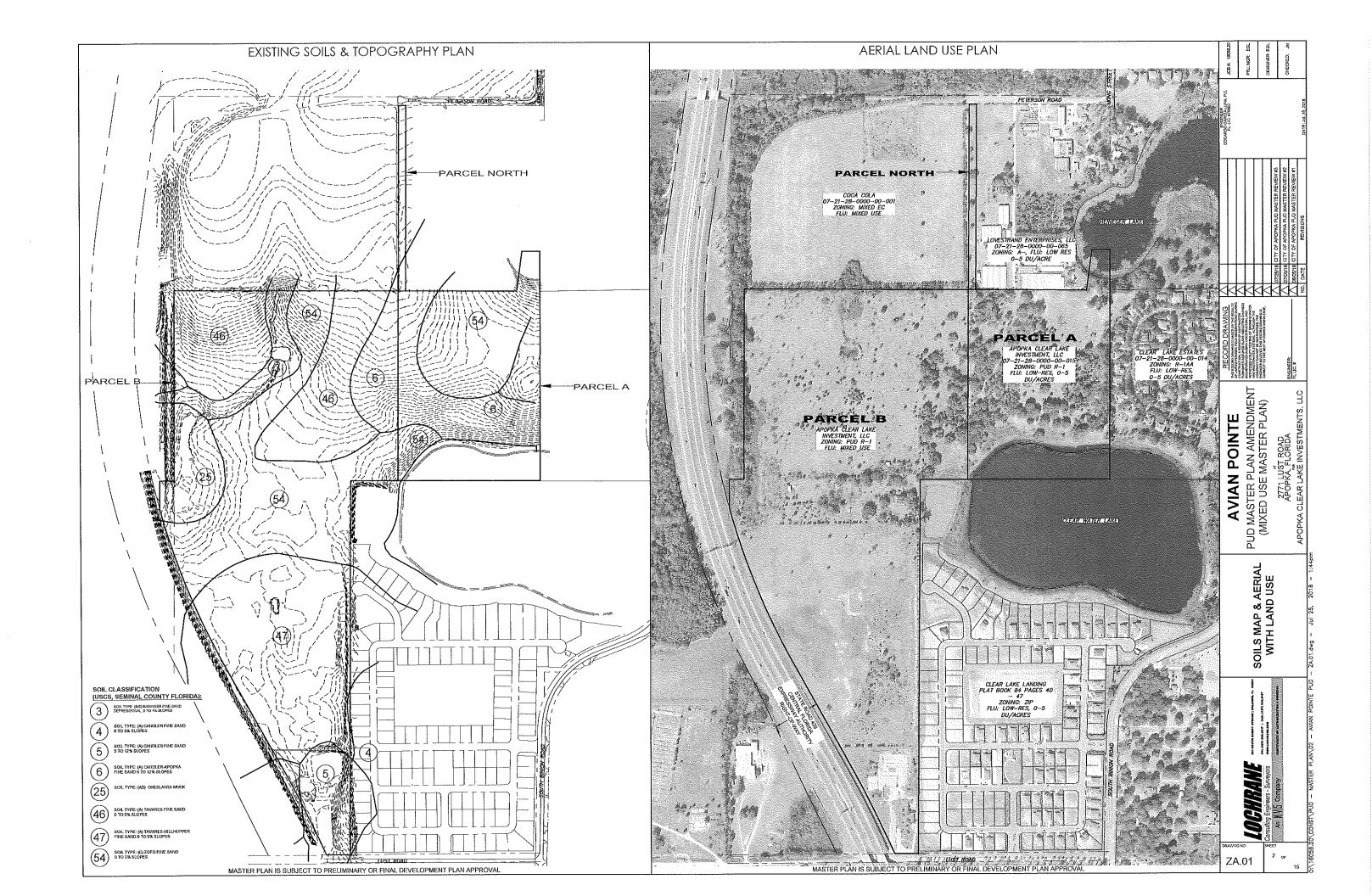
ADJACENT ZONING

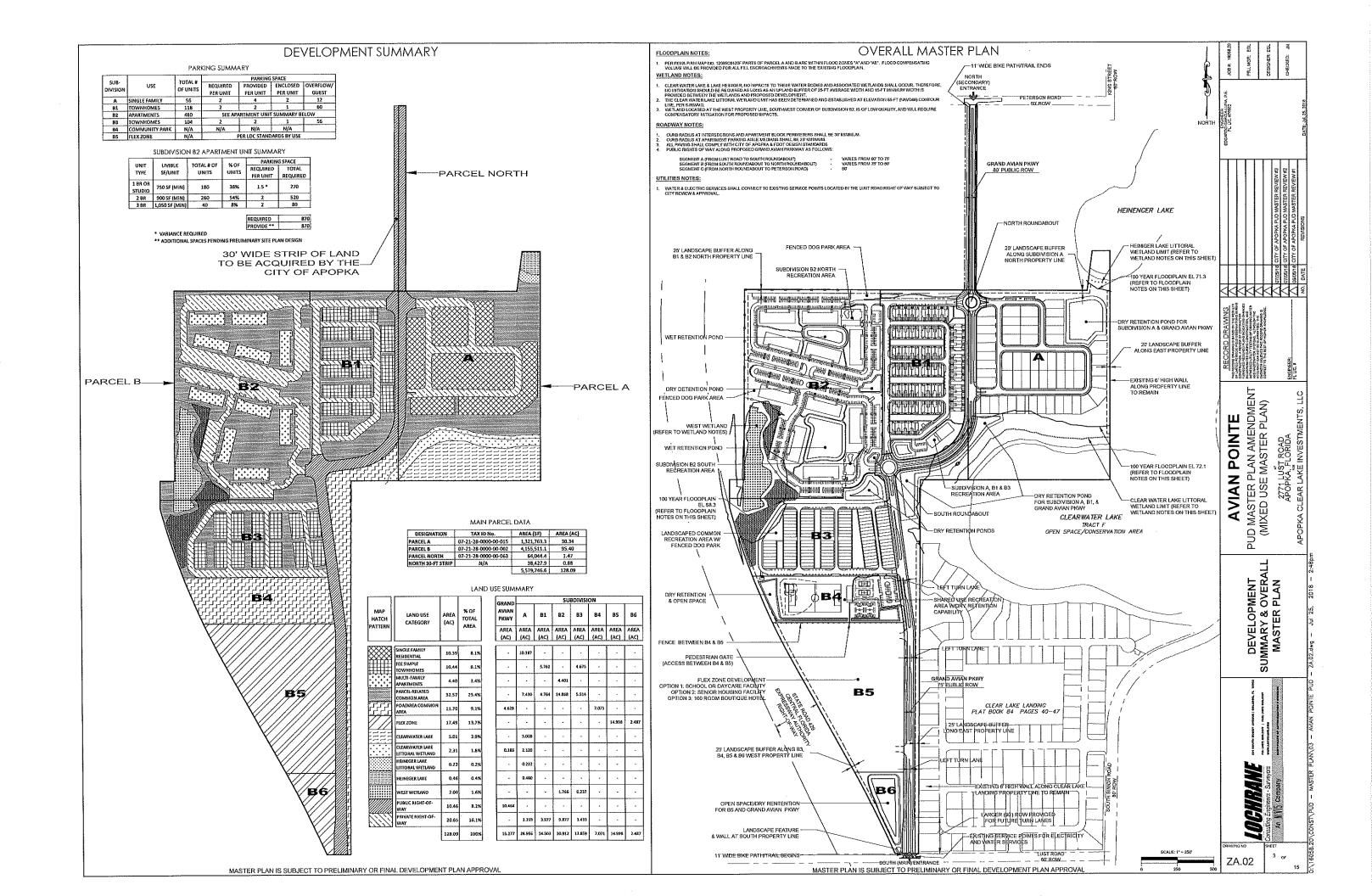


ADJACENT USES









DEVELOPMENT STANDARDS & GUIDELINES

PROPOSED VILLAGE NAMES:

THE LAKES AT AVIAN POINTE SUBDIVISION A SUBDIVISION B1 NORTH MEWS AT AVIAN POINTE THE COMMONS AT AVIAN POINTE

SUBDIVISION B4 (COMMUNITY PARK)

TO BE DETERMINED & SUBMITTED WITH THE PRELIMINARY DEVELOPMENT PLAN TO BE DETERMINED & SUBMITTED WITH THE PRELIMINARY DEVELOPMENT PLAN

PROPOSED STREET NAMES:

	AVAII	ABLE				A	ALTERNATE					
NAME		Ī.,_	BLVD	VD DRIVE	STREET AVEN	AVENUE	E ROAD	LANE	COURT	PLACE Y/N	WAY	SUBDIVISION
	YES	NO	Y/N	Y/N	Y/N	Y/N	Y/N				Y/N	
GRAND AVIAN PARKWAY	✓		Υ	Υ	Y	Y	Y	Y	Y	Y	Y	AMAN POINTE
CLEAR WATER DRIVE	✓		Y		Y	Y	Y	Y	Y	Y	Y	A
BASS ROAD		1	Υ	N	N	Y		Y	Y	Υ	Y	Α
BLUEGIL WAY	✓		Y	Y	N	Y	Y	Y	Υ	Y		A
GALLINULE DRIVE	1		Y		Y	Υ	Y	Y	Y	Y		B1
AYTHYA WAY	✓		Y	Y	Y	Y	Y	Y	Y	Υ		B1
ANHINGUS COURT	1		Y	Y	Y	Y	Y	Y		Y	Y	B1
HARRIER COURT	1		Y	N	Y	Υ	Y	Υ		Y	Y	B1
BLUE HERON WAY	1		Y	N	Υ	Υ	Y	Y	Y	Y		B2
EAST COMMONS DRIVE	V		Y		Y	Y	Y	Y	Υ	Y	Y	B2
WEST COMMONS DRIVE	✓		Y		Y	Υ	Y	Y	Y	Υ	Υ	82
EGERT DRIVE	1		Υ		Y	Y	Υ	Y	Y	Υ .	Y	B3
PEREGRINE COURT		1	Υ	Y	Y	N	Y	Y		Y	Y	B3
ARDEA COURT	1		Y	Y	Υ	N	Υ	Υ		Y	Y	B3

NOTES:

- ALL STREET NAMES DEEMED AVAILABLE PER ORANGE COUNTY MASTER STREET ADDRESS GUIDE.
- VILLAGES (SUBDIVISIONS) MAMES LISTED ABOVE ARE PRELIMINARY & SUBJECT TO CHANGE PENDING PRELIMINARY SITE PLAN SUBMITTAL STREET NAMES ARE PRELIMINARY & SUBJECT TO CHANGE PENDING ORANGE COUNTY AVAILABILITY & PRELIMINARY SITE PLAN SUBMITTAL

1. COMMUNITY DESIGN

- 1.1. GRAND AVIAN PKWY NORTHERN & SOUTHERN ENTRANCES FEATURE DESIGN & LANDSCAPING SHALL BE PROVIDED AT PRELIMINARY DEVELOPMENT PLAN.
- 1.2.1. ALL SUBDIVISIONS SHALL HAVE USPS/ADA APPROVED MAIL KIOSKS. THESE KIOSKS SHALL BE COVERED BY A SHELTER STRUCTURE SUFFICIENT TO PROTECT THE PATRON AND DELIVERY PERSONNEL FROM INCLEMENT WEATHER, AND SHALL BE LOCATED ON PAVED AREAS WITH SUFFICIENT MANEUVERING CLEARANCES & PROPER GRADING TO ACCOMMODATE BOTH MAIL CARRIERS & PERSONS WITH DISABILITIES, A LETTER FROM THE APOPKA USPS SHALL BE REQUIRED PRIOR TO APPROVAL OF THE PRELIMINARY DEVELOPMENT PLAN.
- 1.3 PURLIC & PRIVATE ROADS REFER TO ENLARGED MASTER PLAN SHEETS ZA.03 & ZA.04 FOR ROAD DESIGNATION (PUBLIC OR PRIVATE) REFER TO STREET NAME TABLE SHOWN ON THIS SHEET FOR PROPOSED STREET NAMES, FINAL STREET NAMES SHALL BE
 - SUBMITTED WITH THE PRELIMINARY DEVELOPMENT PLANS.
- 1.4. FENCED DOG PARK AREA TWO FENCED DOG PARK AREAS SHALL BE PROVIDED WITHIN SUBDIVISION B2, AND ONE FENCED DOG PARK AREA WITHIN
- 1.4.2. DELINEATED DOG PARK PLANS SHALL BE SUBMITTED WITH THE PRELIMINARY DEVELOPMENT PLAN.
- A LIST OF POTENTIAL "VILLAGES" OR NEIGHBORHOOD NAMES SHALL BE INCLUDED WITH THE PRELIMINARY SITE PLAN. EACH VILLAGE WILL BE NAMES "XXXX" AT AVIAN POINTE.
- COMMUNITY SIGNAGE WILL BE UNIFORM, DEVELOPED, SUBMITTED & APPROVED PER CITY OF APOPKA SIGNAGE STANDARDS AT
- COMMUNITY STREET LIGHTING WILL BE UNIFORMED, SELECTED, SUBMITTED & APPROVED PER CITY OF APOPKA STREET LIGHTING STANDARDS AT HE PRELIMINARY SITE PLAN

2. PARKING

- 2.1, REFER TO ZA.02 FOR PARKING SUMMARY YABLE.
- 2.2. ON-STREET PARALLEL PARKING SPACES SHALL BE A MINIMUM OF 9' WIDE BY 22' IN LENGTH.
- HEAD-IN 90' STANDARD PARKING SPACES SHALL BE A MINIMUM OF 8' WIDE X 16' IN LENGTH.

 HEAD-IN 90' STANDARD PARKING SPACES AT SUBDIVISION B2 PAKING AISLES MAY BE DECREASED TO 9' WIDE X 16 DEEP TO INCREASE LANDSCAPE MEDIAN PER CITY OF APOPKA LDC.
- 2.5. HEAD-IN 90° ADA PARKING SPACES SHALL BE A MINIMUM OF 12° WIDE X 19° LONG & MEET BOTH FLORIDA BUILDING CODE & FEDERAL ADA STANDARDS, A 5° WIDE ACCESSIBLE AISLE SHALL BE REQUIRED AT EACH ADA PARKING SPACE, EACH SPACE SHALL BE MARKED WITH THE UNIVERSAL ADA SYMBOL & BE PROVIDED WITH APPROPRIATE SIGNAGE IN ACCORDANCE WITH CODE
- COMPACT SPACES ARE NOT ALLOWED.
- 2.7. GARAGE SETBACKS:
 - ${\tt SUBDIVISION} \underline{{\tt A}} \ ({\tt SINGLE} \ {\tt FAMILY}) \!: {\tt 3D} \ {\tt MINIMUM} \ {\tt CLEAR} \ {\tt DRIVEWAY} \ {\tt DEPTH} \ {\tt TO} \ {\tt RIGHT} \ {\tt OF} \ {\tt WAY} \ {\tt SIDEWALK}.$
 - SUBDIVISION B1 & B3 (TOWNHOMES): 20' MIN CLEAR DRIVEWAY DEPTH TO RIGHT OF WAY SIDEWALK, GARAGE SETBACK MUST BE SUFFICIENT TO ACCOMMODATE A 20' LONG VEHICLE WITHOUT EXTENDING OVER A SIDEWALK OR STREET/ALLEY.
- 2.8. TOWNHOME DRIVEWAYS SHALL BE SEPARATED BY A LANDSCAPE AREA TO SEPARATE VEHICLES & DEFINE PROPERTY

3. BUILDING DESIGN/ARCHITECTURE

- 3.1. VILLAGE STRUCTURES SHALL BE COMPUMENTARY TO BUT DISTINCT FROM ADJECENT VILLAGES.
 3.2. BUILDING FACADES SHALL BE VARIED IN DEPTH WITH MULTIPLE PITCHED ROOF HEIGHTS TO PROVIDE VISUAL INTEREST, FLAT AND/OR MANSARD ROOFS SHALL NOT BE PERMITTED.
- FACADE MAYERIALS SHALL BE VARIED AND MAY CONSIST OF STUCCO, HORIZONTAL SIDING, STONE AND/OR BRICK VENEER
- COLOR PALETTES SHALL BE COMPLIMENTARY TO BUT DISTINCT FROM ADJACENT VILLAGES. FIELD COLORS & TRIM SHALL BE DISTINCT FROM ONE ANOTHER.
- UNITS SHALL HAVE A USEABLE FRONT PORCH ACCESSIBLE FROM THE SIDEWALK. UPPER UNITS AT THE APARTMENTS SHALL, ALSO HAVE PORCHES AND/OR USEABLE OUTDOOR SEATING AREAS LOCATED ALONG THE UPPER FLOOR VERANDAS.
- ONE COMMUNITY CLUBHOUSE AND RESORT STYLE POOL SHALL BE PROVIDED FOR, AND SHALL BE SHARED BY THE SINGLE FAMILY AND TOWNHOME VILLAGES.

 TWO COMMUNITY CLUBHOUSES AND RESORT STYLE POOLS SHALL BE PROVIDED IN THE APARTMENT VILLAGE.
- ALL COMMUNITY CLUBHOUSES SHALL BE EQUIPPED WITH RESTROOMS, COMMUNAL KITCHEN (INDOOR AND/OR OUTDOOR), SEATING AREAS AND EXERCISE AREAS.
- 3.9. ALL COMMUNITY CLUBHOUSES SHALL BE DESIGNED TO ACCOMMODATE PERSONS WITH DISABILITIES AS REQUIRED BY FLORIDA BUILDING CODE AND ADA, CURRENT ENFORCED EDITIONS.

 3.10. ACCESS TO COMMUNITY CLUBHOUSES SHALL BE RESTRICTED TO VILLAGE RESIDENTS AND THEIR QUESTS.
- 3.11. ENTRANCE TO EACH TOWNHOME UNIT MUST ACCESS A SIDEWALK, TOWNHOMES ABUTTING A STREET SHALL HAVE THEIR MAIN ENTRY FROM THAT STREET, THIS APPLIES TO THE PERIMETER UNITS ON SUBDIVISION B1 & B3.
- 3.12. TOWNHOMES SHALL HAVE A MINIMUM OF ONE ENCLOSED GARAGE SPACE.
 3.13. SINGLE FAMILY RESIDENCES SHALL HAVE A MINIMUM OF 2 ENCLOSED GARAGED SPACES.
- 3,14. TOWNHOUSE & APARTMENT UNIT PRELIMINARY LAYOUTS & DIMENSIONS USED FOR THIS SUBMITTAL SHALL BE PROVIDED AS SUPPLEMENTAL DOCUMENTS AT TIME OF PUBLIC HEARING.

4. BUILDING SETBACKS

- 4.12. SINGLE FAMILY RESIDENCES
 - 25' MINIMUM FRONT-FACING GARAGE: 30, WINIWOW SIDE YARD: 7.5' MINIMUM
 - REAR YARD: 20' MINIMUM
- 4.12.4 TWO STORY RESIDENCES SHALL BE SETBACK AN ADDITIONAL 2.5' FROM THE SIDE YARD PROPERTY HINES
- 4.12.1. FRONT PORCHES MAY ENCROACH INTO FRONT YARD SETBACK NO MORE THAN 51.
 4.12.3. FENCE SHALL NOT BE INSTALLED ALONG THE BACK OF LOTS 1 TO 8 (REAR GARAGE ENTRANCE LOTS).
- 4.12.4. THE FRONT ELEVATION OF ANY HOME CONSTRUCTED ON A CUIL-DE-SAC OR ON A CURVE SHALL BEING 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 THE CURVE THROUGH A MID-POINT OF THE LOT FRONTAGE.
- 4.1. TOWNHOMES
 - 15' MINIMUM, 17' TO 20' SHOWN ON PLAN TO PUBLIC SIDEWALK WHERE FACING STREET FRONT YARD:
 - 5' MINIMUM TO PUBLIC SIDEWALK WHERE FACING CENTRAL GREENBELT FRONT YARD:
- FACE OF BLDG TO FACE TO BLDG: 60' MINIMUM WHERE FACING CENTRAL GREENBELT
- SIDE YARD BETWEEN BLDGS: 20' MINIMUM 20' MINIMUM TO PUBLIC SIDEWALK/EDGE OF RIGHT OF WAY
- TOWNHOMES ABUTTING THE SINGLE FAMILY RESIDENTIAL VILLAGE SHALL BE SETBACK A MINIMUM OF 30' FROM THE PROPERTY LINE SEPARATING THE TWO VILLAGES,
- 4.1.2. A 6' HIGH PRECAST CONCRETE WALL WITH STONE VENEER SHALL BE LOCATED ALONG THAT PROPERTY LINE REFER TO MASTER PLAN & LANDSCAPE PLAN FOR LOCATION.
- 4.1.3. FRONT PORCHES AT TOWNHOMES MAY NOT ENCROACH INTO THE FRONT YARD SETBACK.

4.2. APARTMENTS FRONT YARDS:

12' MINIMUM TO PUBLIC SIDEWALK WHERE FACING STREET

NOT APPLICABLE SIDE YARD:

- FACE OF BLDG TO FACE TO BLDG: 60' MINIMUM WHERE FACING CENTRAL GREENBELT
- GROUND FLOOR APARTMENT UNITS FACING THE STREET SHALL HAVE USABLE FRONT PORCHES AND ENTRANCES ACCESSIBLE
- 4.2.2. UNITS FACING THE CENTRAL GREENSPACE SHALL HAVE USABLE PORCHES ACCESSIBLE FROM COMMON AREA SIDEWALK.
 4.2.3. FRONT PORCHES AT THE APARTMENTS MAY NOT ENCROACH INTO THE FRONT YARD SETBACK OR CENTRAL GREENSPACE

5. LOT AREA & DIMENSIONS

- 5.1. SINGLE FAMILY RESIDENCES MINIMUM LOT AREA:
 - 7,500 SQUARE FEET (R-3 MINIMUM LOT AREA)
 - INTERIOR LOTS: 60' X 125', 60' X 132', 70' X 120'
 - CORNER LOTS: 75' X 125', 70' X 132'
 - 75' X 107' (LOTS ALONG EAST PROPERTY UNE) PERIMETER LOT:
- 5.1.1. LOT WIDTHS AT INTERNAL BLOCKS VARY BUT MUST MAINTAIN MINIMUM STANDARDS LISTED ABOVED

5.2. TOWNHOMES INTERIOR LOTS:

23' X 89' MINIMUM

23'-4' WIDE X 89' DEEP TO ACCOMMODATE END WALL THICKNESS

5.2.1. COMMON AREAS ABUTTING THE TOWNHOME LOTS SHALL BE THE RESPONSIBILITY OF AND MAINTAINED BY THE VILLAGE H.O.A.

UNIT SIZES

1. SINGLE FAMILY RESIDENCES

FND LOTS:

1.700 SQUARE FEET

TOWNHOMES

MINIMUM LIVARI E AREA 1.350 SQUARE FEET

6.2. APARTMENTS

MINIMUM LIVABLE AREA: 1 BR UNIT

750 SQUARE FEET 2 BR UNIT: 900 SQUARE FEET 3 BR UNIT-1.050 SQUARE FEET

6.2.1. REFER TO DEVELOPMENT AGREEMENT FOR FOR THIS PROJECT FOR LIST OF LUXURY APARTMENT FEATURES

COMMUNITY PARK (DEVELOPMENT B4) GUIDELINES

- 7.1. PARK FACILITIES SHALL MEET ADA ACCESSIBILITY REQUIREMENTS.
- 7.2. RESTROOMS SHALL BE PROVIDED FOR PARK USERS.
 7.3. ON-SITE PARKING SHALL BE PROVIDED FOR PARK USERS.
- BICYCLE RACKS SHALL BE PROVIDED, NUMBER AND LOCATIONS TO BE DETERMINED AT THE PRELIMINARY DEVELOPMENT PLAN.
- DRINKING FOUNTAINS SHALL BE PROVIDED. NUMBER AND LOCATIONS TO BE DETERMINED AT THE PRELIMINARY DEVELOPMENT
- 7.5. RECREATIONAL FACILITIES SHOWN ON PLANS ARE CONCEPTUAL, FINAL FACILITIES TO BE DETERMINED AT THE PRELIMINARY
- 7.7 ALL DEVELOPMENT RESIDENTS SHALL HAVE SHARED-HISE ACCESS TO THE COMMUNITY PARK
- 8. A BACKSTOP SHALL BE PROVIDED AT THE BASEBALL FIELD; DETAIL SHALL BE PROVIDED AT THE PRELIMINARY DEVELOPMENT PLAN.

FLEX ZONE (DEVELOPMENT B5)

- B.1. PROPOSED THREE (3) OPTIONS:
- SCHOOL/DAYCARE FACILITY
- OPTION 2: SENIOR HOUSING FACILITY OPTION 3
- 6.2. FLEX ZONE DEVELOPMENT STANDARD TO FOLLOW LAND DEVELOPMENT CODE. B.3. REFER TO DEVELOPMENT AGREEMENT FOR FLEX ZONE ADDITIONAL INFORMATION

FIRE DEPARTMENT NOTES

- 9.1. ALL ROADWAYS, WATER LINE INFRASTRUCTURE AND FIRE HYDRANTS SHALL BE IN PLACE BEFORE BUILDING CONSTRUCTION MAY
- 9.2. FIRE HYDRANTS MUST BE WITHIN 500 FEET OF EACH HOME
- FIRE HYDRANT SHALL BE MARKED WITH A BLUE ROAD REFLECTOR. FIRE LANES SHALL BE PROVIDED FOR THE MULTI RESIDENTIAL BUILDINGS.
- 9.5. ALL MULTI RESIDENTIAL TOWN HOMES OR APARTMENTS MUST BE EQUIPPED WITH FIRE SPRINKLER SYSTEMS, AND FIRE ALARM SYSTEMS MEETING FLORIDA FIRE PREVENTION CODE.
- FIRE DEPARTMENT CONNECTIONS (FOC) FOR SPRINKLER SYSTEMS MUST BE REMOTE FROM THE BUILDINGS WITH FIRE LANES.

 IF THE DEVELOPMENT IS GATED, THE GATE SHALL BE EQUIPPED WITH AN OPTI-COM TYPE SIGNALING DEVICE THAT IS COMPATIBLE

 WITH CITY OF APOPVA EMERGENCY VEHICLES. IT MUST ALSO BE EQUIPPED WITH A YELP SIREN ACTIVATION AND GATE CODE
- REQUESTED BY THE FIRE DEPARTMENT. CONNECTOR ROAD TO THE NORTH ALL THE WAY TO ORANGE AVENUE SHALL MEET CITY OF APOPKA STANDARDS TO ALLOW SAFE

10.PUBLIC SERVICES DEPARTMENT NOTES

- 10.1. ROADS, DRIVEWAYS & ROUNDABOUTS SHALL FOLLOW FOOT STANDARDS
- 10.2. UTILITIES SHALL BE COORDINATED WITH AND PROVIDED BY THE CITY OF APOPKA.

 10.3. SANITATION SERVICE SHALL BE COORDINATED WITH AND PROVIDED BY THE CITY OF APOPKA. 10.4. SINGLE FAMILY & TOWNHOME SANITATION SERVICE SHALL BE VIA INDIVIDUAL UNIT CURBSIDE WASTE BINS PER CITY SCHEDULE.
- 10.4. SINGLE FAMILY & TOWNHOME SANITATION SERVICE SHALL BE VIA INDIVIDUAL UNIT CORSIDIE WAS FER CITY SCHEDULE.
 10.5. APARTMENT SANITATION SERVICE SHALL BE VIA ROLL-OFF BINS LOCATED WITHIN AN ENCLOSED COMPACTOR BAY ON SITE.
 APARTMENT MAINTENANCE STAFF SHALL BE RESPONSIBLE FOR TRANSPORTATION OF TRASH FROM THE APARTMENT BUILDINGS
 TO THE COMPACTORS AND COORDINATING PICK UP WITH THE CITY SANITATION DEPARTMENT.
 10.6. NO TREES OR SHRUBS SHALL BE PLANTED WITHIN THE ROAD RIGHT OF WAYS WITH CONTAIN CITY-MAINTAINED POTABLE WATER, RECLAIMED WATER, STORMWATER OR SEWER MAINS.
- 10.7. LANDSCAPE & IRRIGATION DESIGN SHALL BE IN ACCORDANCE WITH THE CITY OF APOPKA ORDINANCE 2089, ADOPTED MAY 21, 2008 WHICH ESTABLISHES WATER WISE LANDSCAPE & IRRIGATION STANDARDS.

. ADDITIONAL NOTES

- 11.1. DEVELOPMENT STANDARDS TO FOLLOW LAND DEVELOPMENT CODE.
- 11.2. REFER TO DEVELOPER AGREEMENT FOR ADDITIONAL PROJECT INFORMATION REGARDING DEVELOPMENT STANDARDS &
- 11.3 ALL RESIDENTIAL UNITS SHALL COMPLY WITH FAIR HOUSING ACT ACCESSIBILITY STANDARDS
- 11.4. ALL RIGIDEST THE CONTROL WHITE FAIR NOUSING ACT ACCESSIBILITY STANDARDS.

 11.4. ALL RIGIGE FAMILY AND TOWNHOME UNITS SHALL HAVE A FAIR HOUSING ACT COMPLIANT BATH OR ½ BATH LOCATED ON THE GROUND FLOOR OF THE UNIT.
- 11.5 ALL RESIDENTIAL UNITS SHALL HAVE LAUNDRY FACILITIES LOCATED WITHIN THE LIVABLE AREA.
- 11.6. BICYCLES AND OR PERSONAL ITEMS OTHER THAN OUTDOOR FURNISHINGS AND PLANTS SHALL NOT BE STORED ON PORCHES.
 BICYCLE RACKS SHALL BE PROVIDED AT COMMUNITY CLUBHOUSES, RECREATION AREAS AND EACH APARTMENT BLOCK.

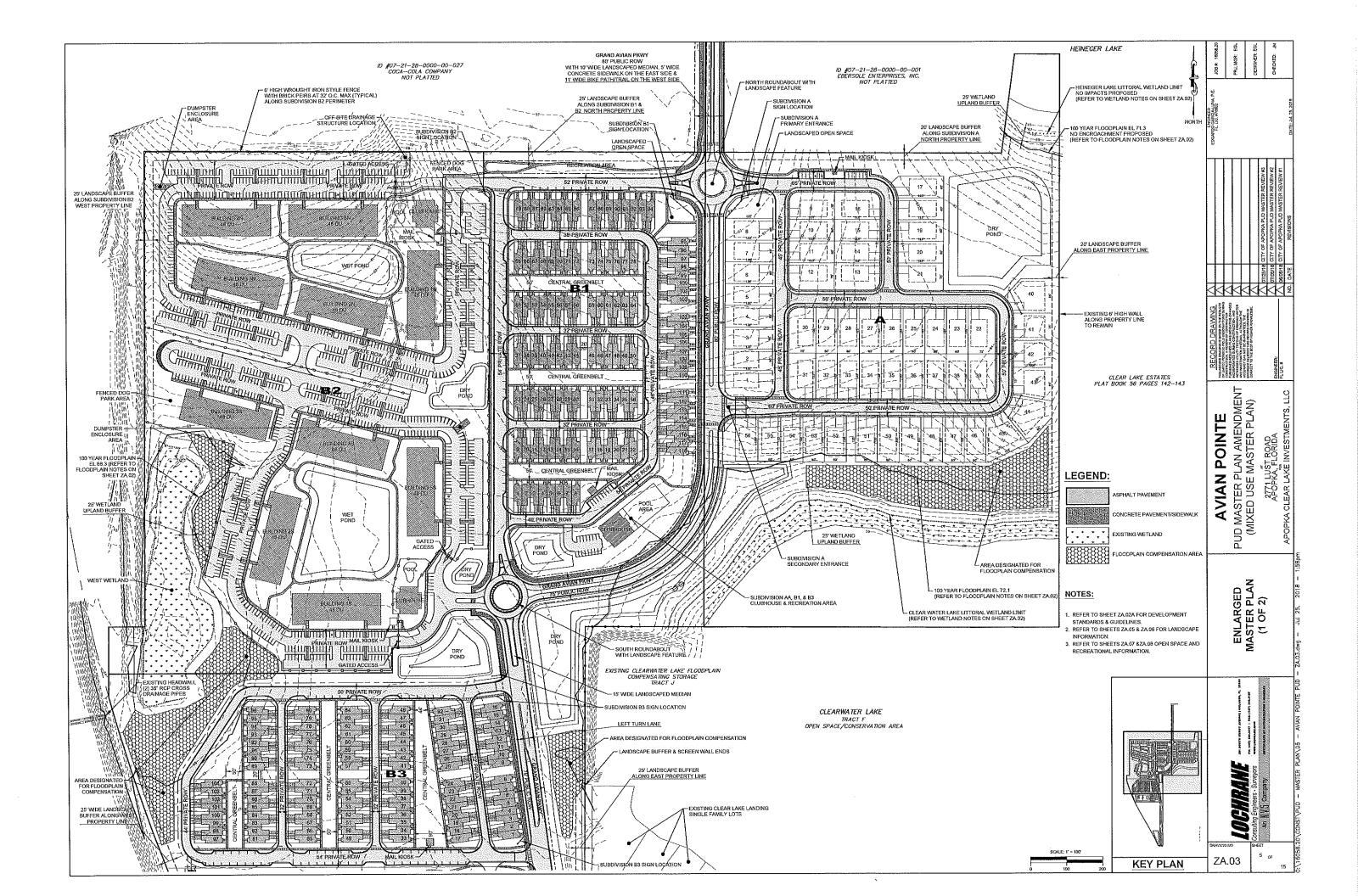
 11.7. SINGLE FAMILY WASTE BINS SHALL BE STORED EITHER EACH UNITS GARAGE OR BEHIND AN OPAQUE SCREEN WALL OR FENCE
- 11.7 TOWNHOME WASTE BINS SHALL BE STORED WITHIN EACH UNIT'S GARAGE OR BEHIND AN OPAQUE SCREEN WALL OR FENCE LOCATED WITHIN THE REAR YARD SETBACK

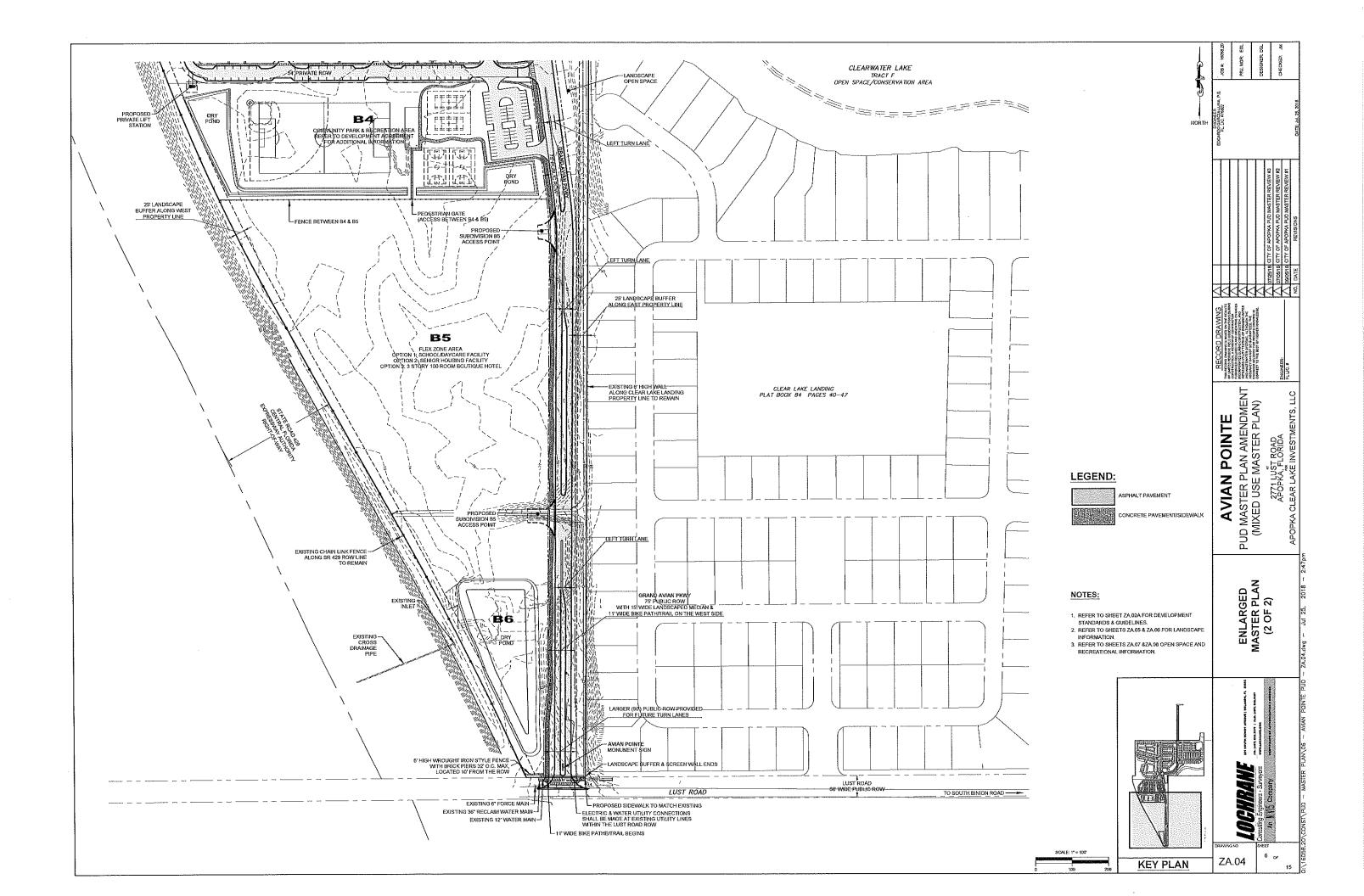
MASTER PLAN IS SUBJECT TO PRELIMINARY OR FINAL DEVELOPMENT PLAN APPROVAL

D MASTER PLAN AMENDMENT (MIXED USE MASTER PLAN) POINTE AVIAN PUD DEVELOPMENT STANDARDS & GUILINES

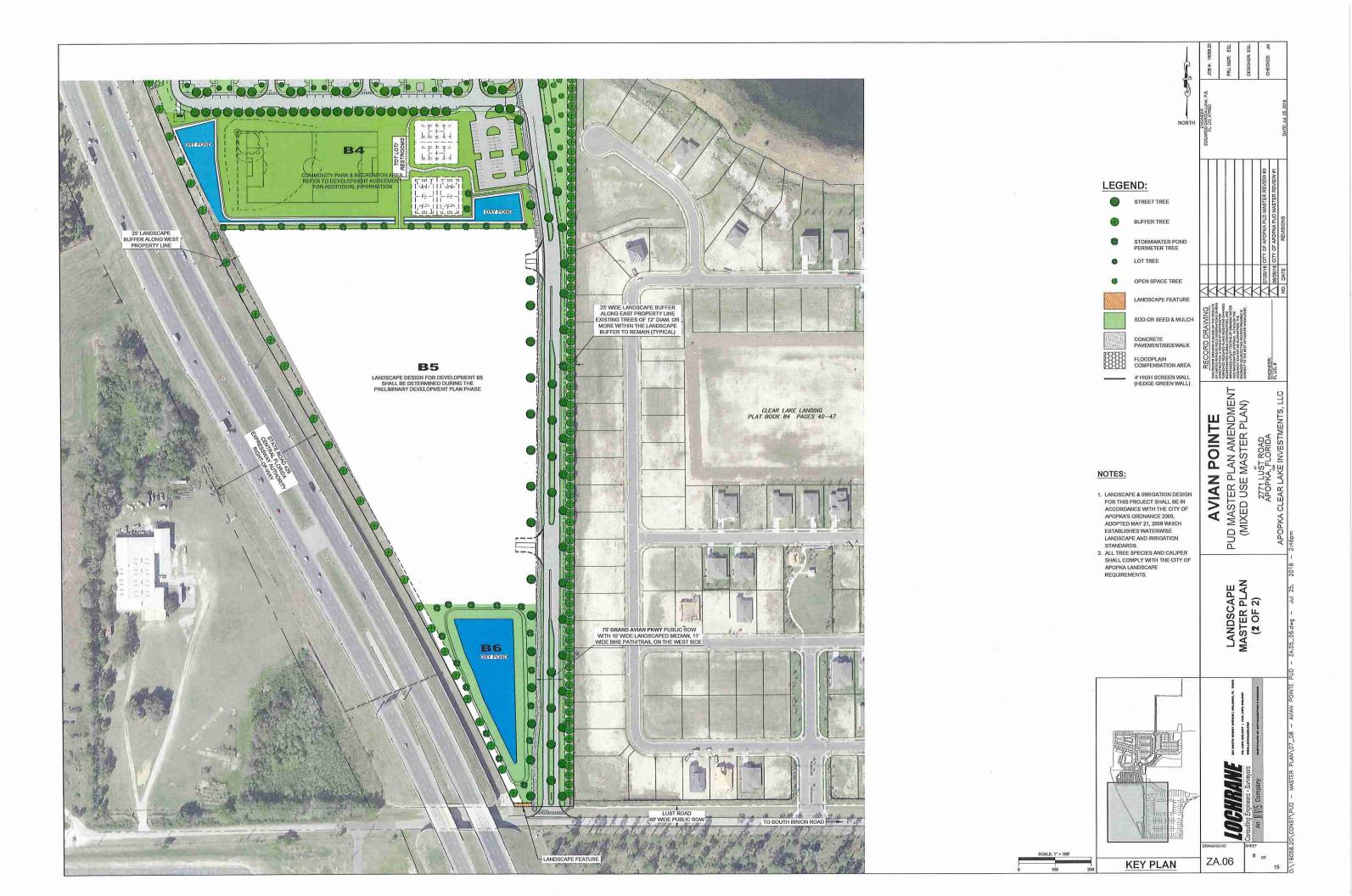
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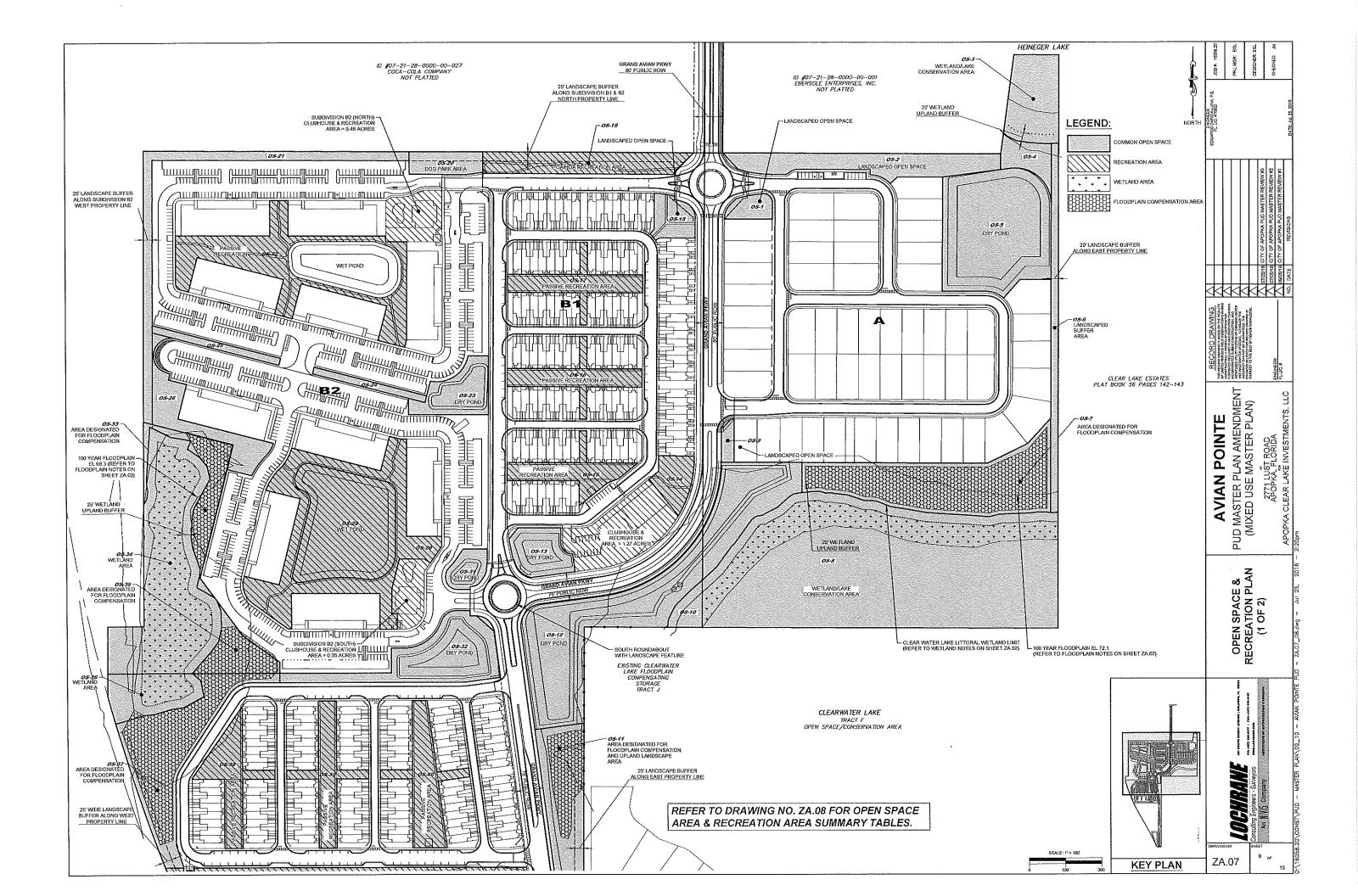
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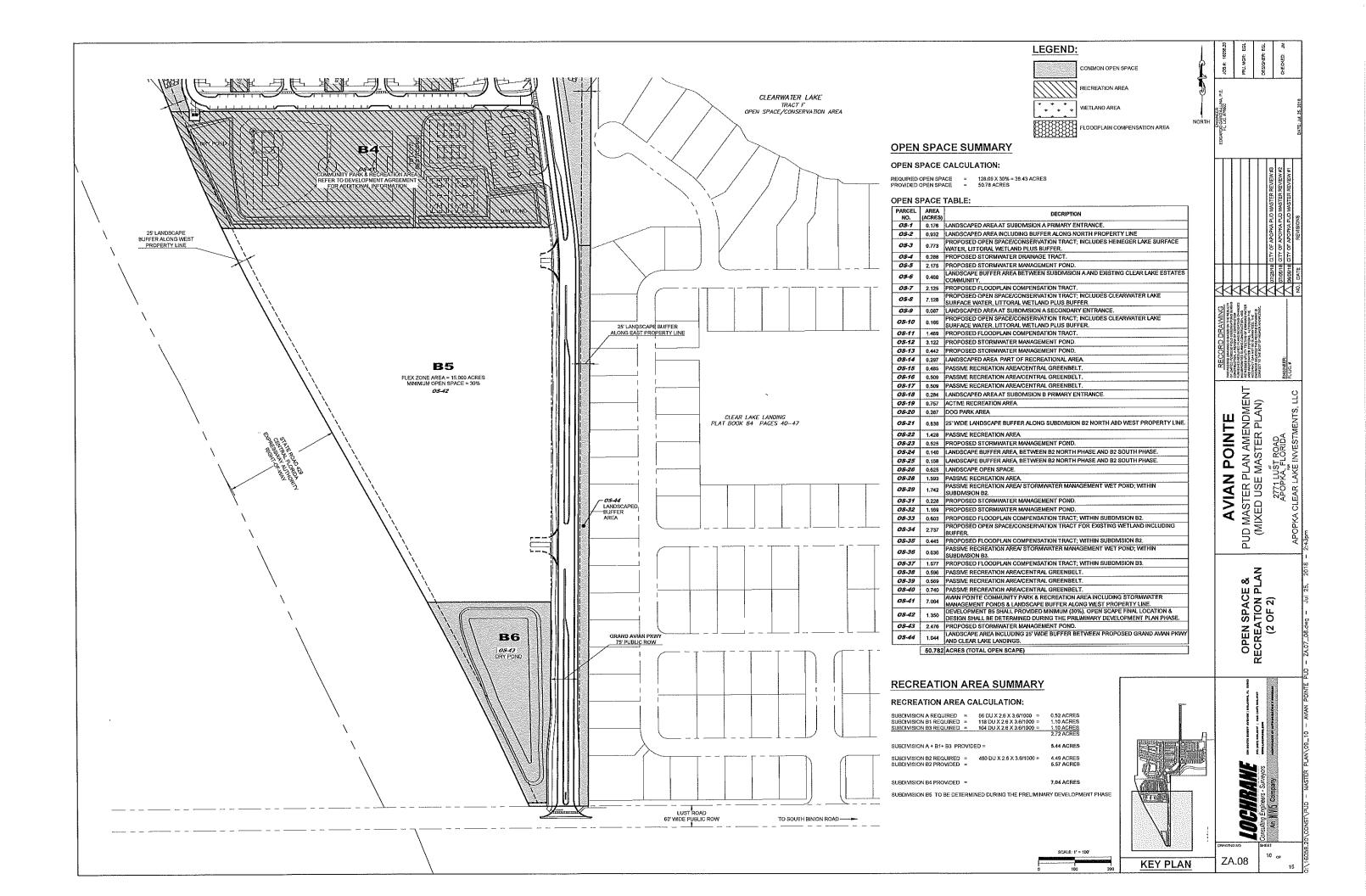


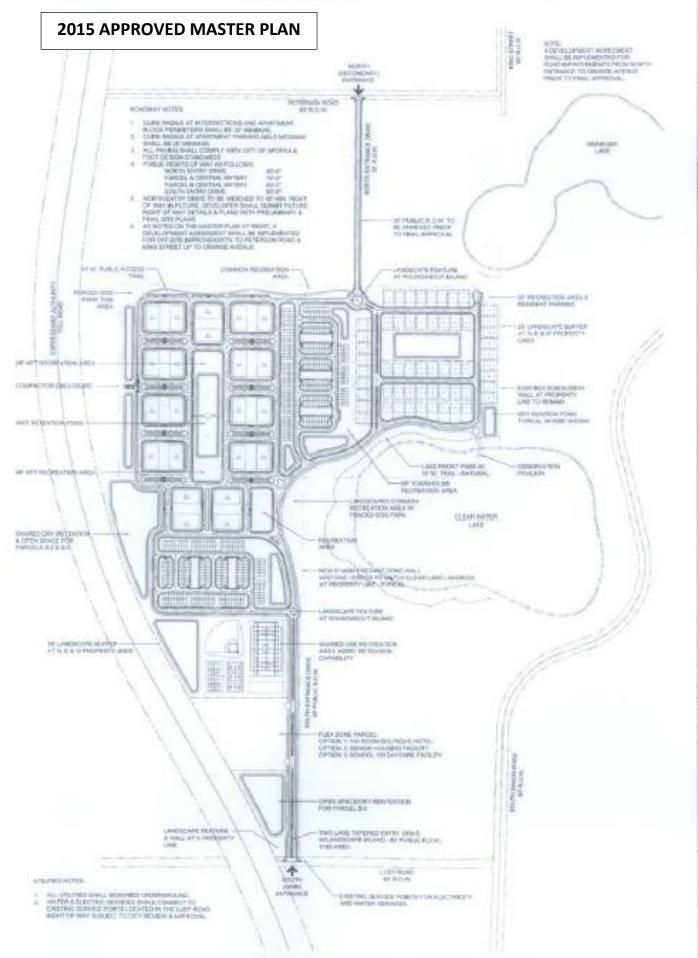




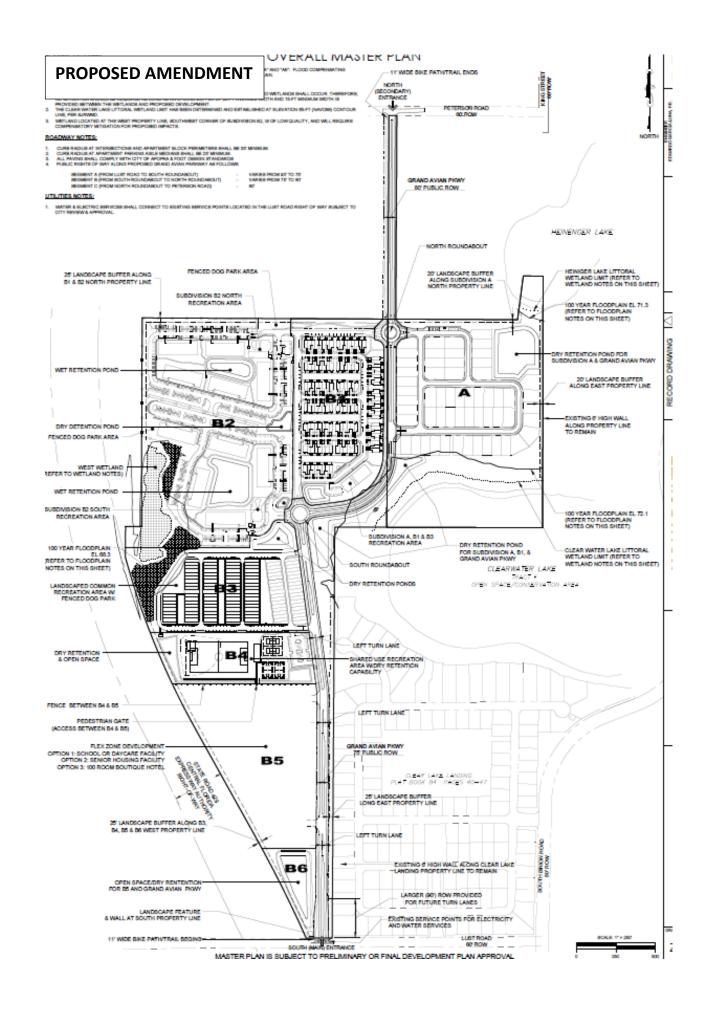








MASTER PLAN IS SUBJECT TO PRELIMBARY OR YEAR, DEVELOPMENT PLAN APPRICIAL



AVIAN POINTE MASTER PLAN PHASE-BY-PHASE CHANGES

PHASE A:

Use: Single Family homes

Park: Clubhouse and pool moved to Phase B-1 for joint use between A, B-1, and B-3 homes; no other park proposed in Phase A; no lake front open space area with multi-use trail to spine road trail

Road System: Spine road moved to west side of Phase A; no longer interior to neighborhood

	Proposed Master Plan	Current Master Plan
No. of Lots\Homes	56	58
Lot Width*	60, 70, 75'	75′
Lot Area	7,500 – 8,750 sq. ft.	8,250 sq. ft.
Home Min. Livable Area	1,700 sq. ft.	1,700 sq. ft.
Acres	10.387	
20'wide landscape		
buffer tract next to Clear	Yes	Yes
Lake Estates/no wall		

*Proposed Lot Width\Area					
Lot Width	No. of Lots	Typical Lot Area			
60	39	7,500 sq. ft.			
70	12	8.750 sq. ft.			
75	5	7,950 sq. ft.			

PHASE B-1 AND B-3:

Use: Townhomes

Park: Clubhouse and pool at B-1 combined with B-3 for joint use between Phases A, B-1, and

B-3 homes

	Proposed Master Plan	Current Master Plan
No. of Lots\Homes	118 + 104 = 222	114 + 102= 216
Lot Width*	20'	20'
Home Min. Livable Area	1,350 sq. ft.	1,350 sq. ft.
Acres	14.5 + 13.86 =	11.59 + 8.82 = 20.4
	28.3	

PHASE B-2:

Use: Apartments

Park: Two community recreation areas proposed (swimming pools and clubhouse); one for

each apartment phase

	Proposed Master	Current Master Plan
	Plan	
No. of Apartment Units	480	484
Acres	30.91	39.63
Gated Community	Yes	No

	Propos	sed Master P	lan	Current Master Plan			
Bedrooms per Apt.	#	%	Min. Sq. Ft.	#	%	Min. Sq. Ft.	
1 BR	180	38	750	194	40	750	
2 BR	260	54	900	194	40	900	
3 BR	40	8	1,050	96	20	1,050	

PHASE B-4:

Use: Community Park for Phase A, B-1, B-2, B-3, and B-4

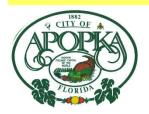
Facilities: As shown each Master Plan

	Proposed Master Plan	Current Master Plan
Acres	7.071	10.36

PHASE B-5:

Use: Flex Use – Boutique hotel, public or private school, Assisted Living Facility, Mixed-Use Vertical Commercial-Residential

	Proposed Master Plan	Current Master Plan
Acres	14.998	6.09



CITY OF APOPKA PLANNING COMMISSION

X PUBLIC HEARING

X SITE PLAN: Final Development Plan

SPECIAL REPORTS

OTHER:

MEETING OF: August 14, 2018

FROM: Community Development

EXHIBITS: Vicinity Map

Zoning Map Aerial Map

Final Development Plan Architectural Renderings Access & Utility Easement

<u>SUBJECT:</u> FINAL DEVELOPMENT PLAN – SITE PLAN – AUTOZONE

STORE

REQUEST: RECOMMEND APPROVAL OF THE FINAL DEVELOPMENT

PLAN FOR THE AUTOZONE STORE

SUMMARY:

OWNER/APPLICANT: Calmil Investment Group LP 95% Int Kenneth Lee Jureit Trust 5% Int

ENGINEER: Rogers Engineering, LLC, c/o Wallace L. Brinkman III, P.E.

LOCATION: 1120 West Orange Blossom Trail

PARCEL ID #s: 05-21-28-0000-00-025 (portion)

FUTURE LAND USE: Commercial

ZONING: C-2 (General Commercial)

EXISTING USE: Vacant

PROPOSED USE: Retail Sales

TRACT SIZE: 1.07 +/- acres

BUILDING SIZE: 6,815 square feet

FLOOR AREA RATIO 0.146 (0.25 Maximum)

DISTRIBUTION

Mayor NelsonFinance DirectorPublic Services DirectorCommissionersHR DirectorRecreation DirectorCity AdministratorIT DirectorCity Clerk

Community Development Director Police Chief Fire Chief

PLANNING COMMISSION – AUGUST 14, 2018 AUTOZONE STORE – FINAL DEVELOPMENT PLAN PAGE 2

RELATIONSHIP TO ADJACENT PROPERTIES:

Direction	Future Land Use	Zoning	Present Use
North (City)	Commercial	PUD (Commercial)	Automobile Service Station and Multi-tenant Center
East (City)	Commercial	C-1 (Retail Commercial)	Retention Pond
South (County and City)	Residential	County Ind-4 (Heavy Industrial District) and City R-1 (Residential Single-Family District)	Railroad and Single Family Residential Subdivision
West (City)	Commercial	C-2 (General Commercial District)	Retail Sales

PROJECT SUMMARY: This is a request to approve the AutoZone Store Final Development Plan that includes a building size of 6,815 square feet. A preliminary development plan is not required for development proposing less than 10,000 sq. ft. of building floor area. The site plan takes into consideration the future potential to plat the property into separate lots.

PARKING: Per Land Development Code parking requirements, 35 parking spaces are required while the applicant is proposing 42 parking spaces, two of which are reserved as a handicapped accessible spaces.

<u>ACCESS/TRANSPORTATION</u>: The site will have access to U.S. 441 via a cross-access easement through the Verizon Store to Lake Doe Boulevard. Two other access points will be available through cross-access easement across the IHOP property.

AutoZone and IHOP are proposed on a single parcel and will share all access; accordingly, a single transportation impact analysis (TIA) was submitted to evaluate the combined impacts of AutoZone and IHOP on the surrounding roadway segments and intersections. Included in the analysis were segments of U.S 441/W Orange Blossom Trail, Errol Parkway, Lake Doe Boulevard, and Old Dixie Highway. Intersections analyzed were U.S. 441/W Orange Blossom Trail and Vick Road; U.S. 441/W Orange Blossom Trail and Errol Parkway; Old Dixie Highway and Errol Parkway; Old Dixie Highway and Vick Road; Lake Doe Boulevard site entrance; and U.S. 441/W Orange Blossom Trail site entrances.

The projects will generate 503 daily and 44 P.M. Peak Hour Net New trips. The addition of these project trips to the study roadways and intersections will not cause the Level of Service (LOS) to fall below the City's adopted LOS standard.

Right and left turn warrant analyses were conducted for the site entrances on U.S. 441 and concluded that turn lanes are not needed to safely accommodate project traffic.

Both access driveways on U.S. 441/W Orange Blossom Trail are required for the site at the time of development of either project if they are not developed simultaneously.

EXTERIOR ELEVATIONS: The height of the proposed building is 25 feet, well below the maximum allowable height of 35 feet. Staff has found the proposed building elevations meet the intent of the City's Development Design Standards\Guidelines.

PLANNING COMMISSION – AUGUST 14, 2018 AUTOZONE STORE – FINAL DEVELOPMENT PLAN PAGE 3

STORMWATER: The stormwater management system includes an on-site retention area, on the southern portion of the project site. The stormwater pond design meets the City's Land Development Code requirements.

<u>BUFFER/SCREENING/LANDSCAPING/TREE PROGRAM</u>: As part of the development plan approval, Ligustrum and Crepe Myrtles, and Indian Hawthorn shrubs line the 10-foot wide buffer adjacent to the U.S. Highway 441. Magnolias are placed in the parking landscaped islands

Arbor Assessment

Total inches on-site (before removal):	163
Total specimen inches removed	110
Total inches retained:	17
Total inches added:	174
Total inches post development:	97

<u>CONDITION OF APPROVAL</u>: All access driveways must be constructed and all associated cross access easements must be recorded across both the IHOP and AutoZone sites prior to issuance of a certificate of occupancy on either site.

PUBLIC HEARING SCHEDULE:

August 14, 2018 – Planning Commission, 5:30 pm September 5, 2018 – City Council, 1:30 pm

RECOMMENDATION ACTION:

The **Development Review Committee** recommends approval of the AutoZone Store – Final Development Plan, subject to the findings of this staff report.

Planning Commission Recommendation: Find the AutoZone Store – Final Development Plan consistent with the Land Development Code and Comprehensive Plan, and recommend approval of Final Development Plan, subject to the Condition of Approval and the findings of this staff report.

Planning Commission Role: The role of the Planning Commission for this development application is to advise the City Council to approve or deny based on consistency with the 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.

PLANNING COMMISSION – AUGUST 14, 2018 AUTOZONE STORE – FINAL DEVELOPMENT PLAN PAGE 4

Application: AutoZone Final Development Plan

Owner/Applicant: Calmil Investment Group LP 95% Int; Kenneth Lee Jureit Trust 5% Int

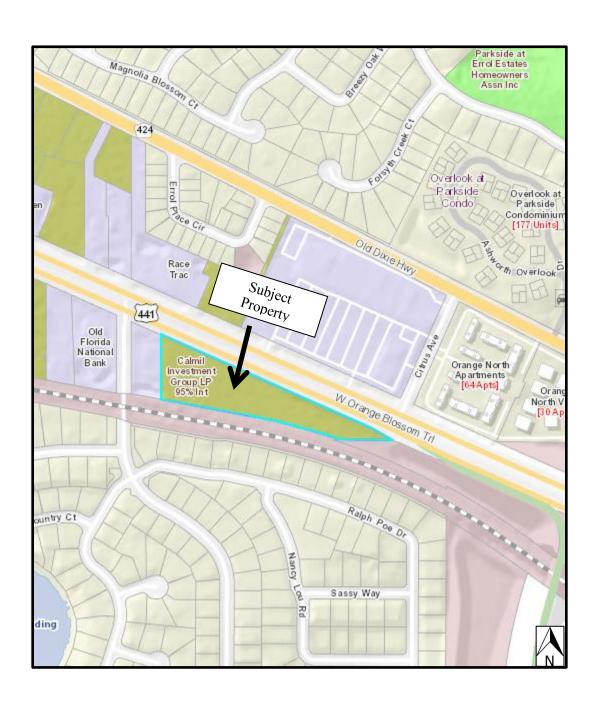
Engineer: Rogers Engineering, LLC, c/o Wallace L. Brinkman III, P.E.

Location: 1120 West Orange Blossom Trail

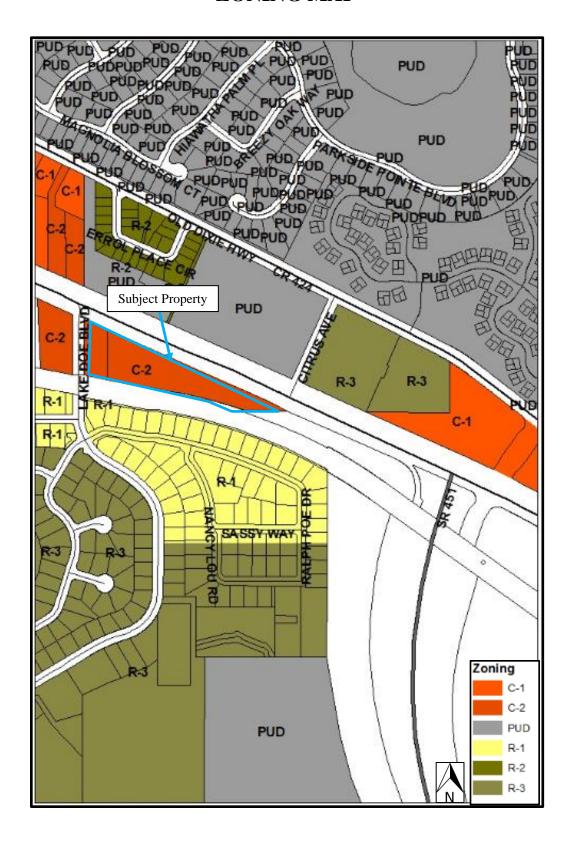
Parcel I.D. #: 05-21-28-0000-00-025

Total Site Area: 3.30 acres +/-

VICINITY MAP

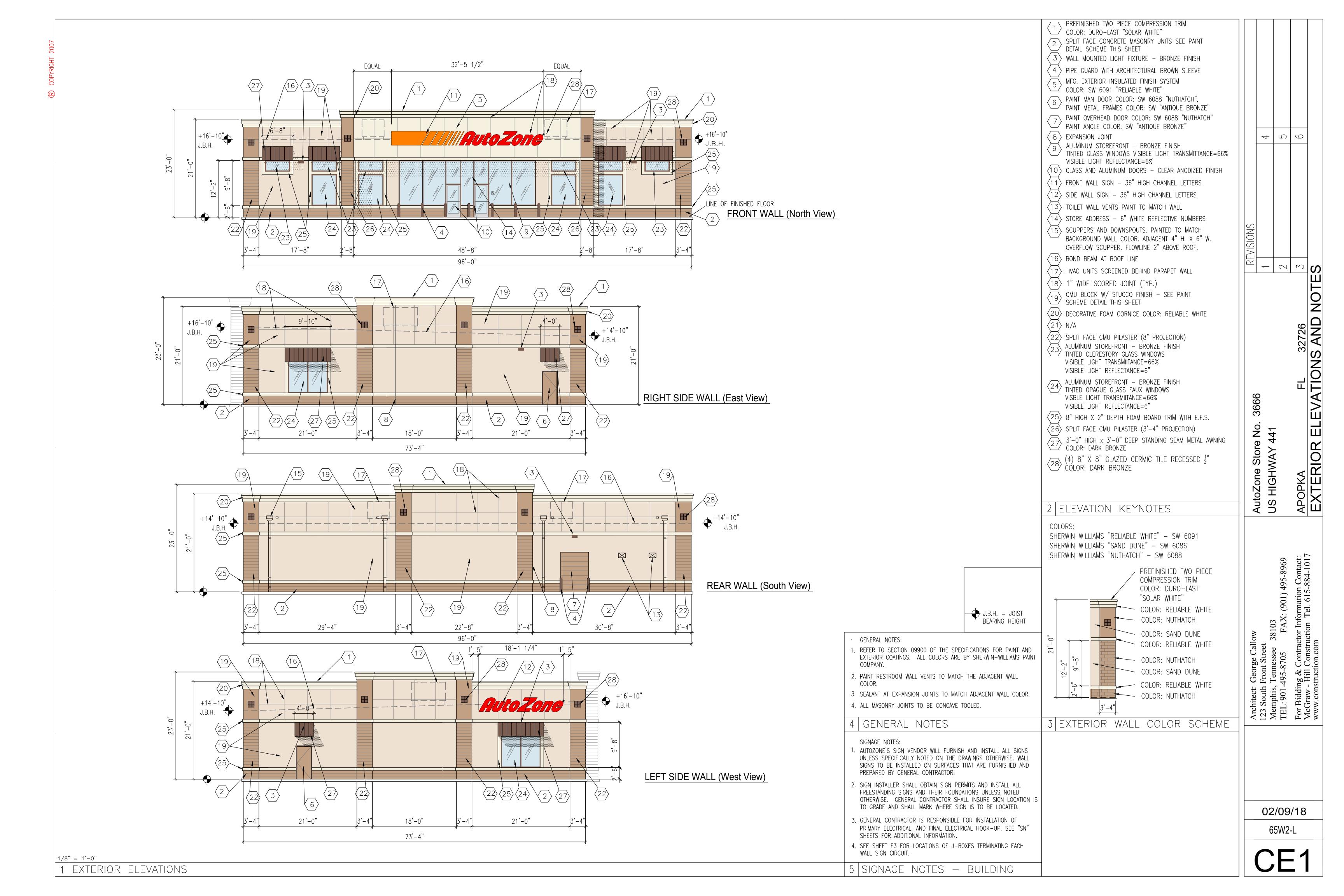


ZONING MAP



AERIAL MAP





A FINAL DEVELOPMENT PLAN

FOR



STORE # 3666

1120 W. Orange Blossom Trail Apopka, Florida

PROJECT TEAM

DEVELOPER:

RETAIL DEVELOPMENT PROPERTIES, LLC 140 E. MORSE BLVD. #J WINTER PARK, FLORIDA 32789 PHONE: 407-766-1000 CONTACT: ROBERT GIERKE EMAIL: rgierke@retaildevelopmentproperties.com

OWNER:

CALMIL INVESTMENT GROUP LP (95% INT.) KENNETH LEE JUREIT TRUST (5% INT.) 5905 MORAY CT NW CONCORD, NC 28027 PHONE: 704-787-9017 CONTACT: KENNETH JUREIT EMAIL: kij54@corolina.rr.com

ARCHITECT/CONSTRUCTION MANAGER:

AUTOZONE STORES, LLC 123 S. FRONT STREET, 3RD FLOOR MEMPHS, TENNESSEE 38103 PHONE: 901-495-8701

SURVEYOR:

CIVIL ENGINEER:

ROGERS ENGINEERING, LLC

1105 S.E. 3RD AVE. OCALA, FLORIDA 34471 PHONE: 352-622-9214

ROGERS ENGINEERING, LLC 1105 S.E. 3RD AVE. OCALA, FLORIDA 34471 PHONE: 352-622-9214 CONTACT: RODNEY ROGERS, P.S.M. EMAIL: rkrogers@rogerseng.com

CONTACT: WALLY BRINKMAN, P.E. EMAIL: wbrinkman@rogerseng.com

LANDSCAPE ARCHITECT:

EDK - ENVIRONMENTAL DESIGN EMAIL: akesselrin@aol.com

GENERAL NOTES:

1. ALL GROUND AREAS DISTURBED BY CONSTRUCTION SHALL BE IMMEDIATELY SODOED FOLLOWING FINAL GRADING. ALLOW FOR THICKNESS OF SOD WITH A 2-INCH UNDERCUT. SOD SHALL BE ARGENTINA BAHIA UNLESS OTHERWISE NOTED ON LANDSCAPE PLAN, AND SHALL BE REGULARLY WATERED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION DURATION.

TO PREVENT EROSION DURING CONSTRUCTION, SILT FENCING SHALL BE INSTALLED AS INDICATED ON THE TREE REMOVAL & EROSION CONTROL PLAN AND MAINTAINED UNTIL THE COMPLETION OF SODDING AND LANDSCAPING.

3. ALL STRIPING SHALL BE 6° WIDE TRAFFIC PAINT, UNLESS OTHERWISE INDICATED, APPLIED WITH DOUBLE COAT A MINIMUM OF 24 HOURS APART. ALL STOP BARS SHALL BE LEAD FREE THERMOPLASTIC.

4. ALL CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THE SITE VIA THE GRAVEL CONSTRUCTION ENTRANCE SHOWN ON THE TREE REMOVAL & EROSION CONTROL PLAN.

IRRIGATION SHALL BE PROVIDED FOR 100% OF THE SITE'S OPEN SPACE THROUGH THE ESTABLISHMENT PERIOD. 6. ALL STORM WATER MANAGEMENT SYSTEMS SHALL BE COMPLETED PRIOR TO THE

7. ALL UTILITY CONSTRUCTION SHALL MEET THE CURRENT CITY OF APOPKA STANDARDS.

10. NO OUTDOOR STORAGE OR DISPLAY WILL OCCUR UNLESS AN AREA IS DESIGNATED AS SLICH.

8. LIGHT POLE FIXTURES CANNOT EXCEED THE HEIGHT OF THE BUILDING. 9. LIGHT POLE FOOTERS CANNOT BE EXPOSED ABOVE FINISH GRADE.

1920 S.E. 8TH ST. OCALA, FLORIDA 34478 PHONE: 352-622-8899 CONTACT: ANDY KESSELRING, P.L.A., A.S.L.A., L.S.A.



SECTION 5, TOWNSHIP 21 S., RANGE 28 E. LOCATION MAP

SHEET INDEX

SHEET NO.	CONTENTS
CO.0	TITLE SHEET
C1.0	BOUNDARY & TOPOGRAPHIC SURVEY
C2.0	EROSION CONTROL & TREE REMOVAL PLA
C2.1	STORMWATER POLLUTION PREVENTION PLA
C3.0	SITE LAYOUT PLAN
C4.0	PAVING, GRADING, & DRAINAGE PLAN
C5.0	UTILITY PLAN
C6.0	GENERAL CONSTRUCTION DETAILS
C6.1	PRIVATE LIFT STATION DETAILS
C7.0-C7.1	CITY OF APOPKA STANDARD DETAILS
C8.0	VEHICLE ROUTING PLAN
C9.0	EASEMENT PLAN
L001	LANDSCAPE PLAN
L002	IRRIGATION PLAN
L003	LANDSCAPE & IRRIGATION DETAILS
LP.1	SITE PHOTOMETRIC PLAN
LP.2	PHOTOMETRIC DETAILS



SITE DATA:

PROJECT NAME: AUTOZONE - STORE #3666

PARCEL NO.: 05-21-28-0000-00-025

OVERALL PARCEL AREA: 3.32 ACRES (144,593 S.F.) PROJECT AREA: 1.07 ACRES (46,681 S.F.)

LAND USE/ZONING: COMMERCIAL/C-2

PROPOSED USE: RETAIL SALES

THIS SITE IS NOT LOCATED IN A FLOOD ZONE PER FEMA MAP NUMBER 12095C0120F

IMPERVIOUS AREA CALCULATIONS:

PROJECT AREA: 46,681 S.F. (1.07 ACRES)

PROPOSED IMPERVIOUS AREA

PVMT & CONC

PERWOUS = 18,097 S.F. (38.8%)

PARKING CALCULATIONS:

GENERAL COMMERCIAL: 1 SPACE/200 S.F. OF GROSS FLOOR AREA

6815/200 = 35 SPACES

TOTAL PARKING REQUIRED: 35 SPACES

PARKING SPACES PROVIDED: 42 SPACES

1 SPACE/25 SPACES = 2 H/C SPACE

HANDICAP PARKING PROVIDED: 2 H/C SPACE

SITE DATA TABLE PARCEL ID NUMBER 05-21-28-000-00-025 ZONING ACREAGE/S.F. 1.07/46,681 BUILDING HEIGHT 25 FT FLOOR AREA RATIO 6,815/45,681 = 0.146 PROPOSED FRONT: 75 FT SIDE: 13 FT REAR: 75 FT BUILDING SETBACKS REQUIRED FRONT: 10 FT SOE: 10 FT REAR: 10 FT PROVIDED: 42 REQUIRED: 35 (1 SPACE / 200 SF GFA) PARKING SPACES TREE BANK MITIGATION FEE N/A NUMBER OF EMPLOYEES 6 WAIVER REQUEST VARIANCE REQUEST NO

DRAINAGE CERTIFICATION:

THE REQUIRED DRAINAGE PATTERNS AND STORAGE CAPACITY OF THE RETENTION AREAS ARE NOT ADVERSELY AFFECTED BY THE ADDITIONAL USE OF LAND WITHIN THE BUFFER YARDS.

STATEMENT OF INTENDED USE:

THIS PROJECT CONSISTS OF CONSTRUCTING A 6,815 S.F. BUILDING FOR AUTO PARTS SALES WITH PAVED PARKING AND DRIVEWAY ACCESS TO US 441 AND LAKE DOE BOULEVARD THROUGH ADJACENT DEVELOPMENTS.

NOTICE! IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THE MOST CURRENT <u>APPROVED</u> PLANS PRIOR TO CONSTRUCTION.



L DEVELOPMENT SITE F
FOR
AUTOZONE
GITY OF APOPKA, FL
Title Sheet DATE

Coe L. Brinkman III, PE R. Reg. No. 82308 brinhams@rogerang.com Pr. Reg. No. 5274 Pr. Regers. PSM Properation.com Cobert L. Rogers, PE P. Reg. No. 19027 P. Reg. No. 19027

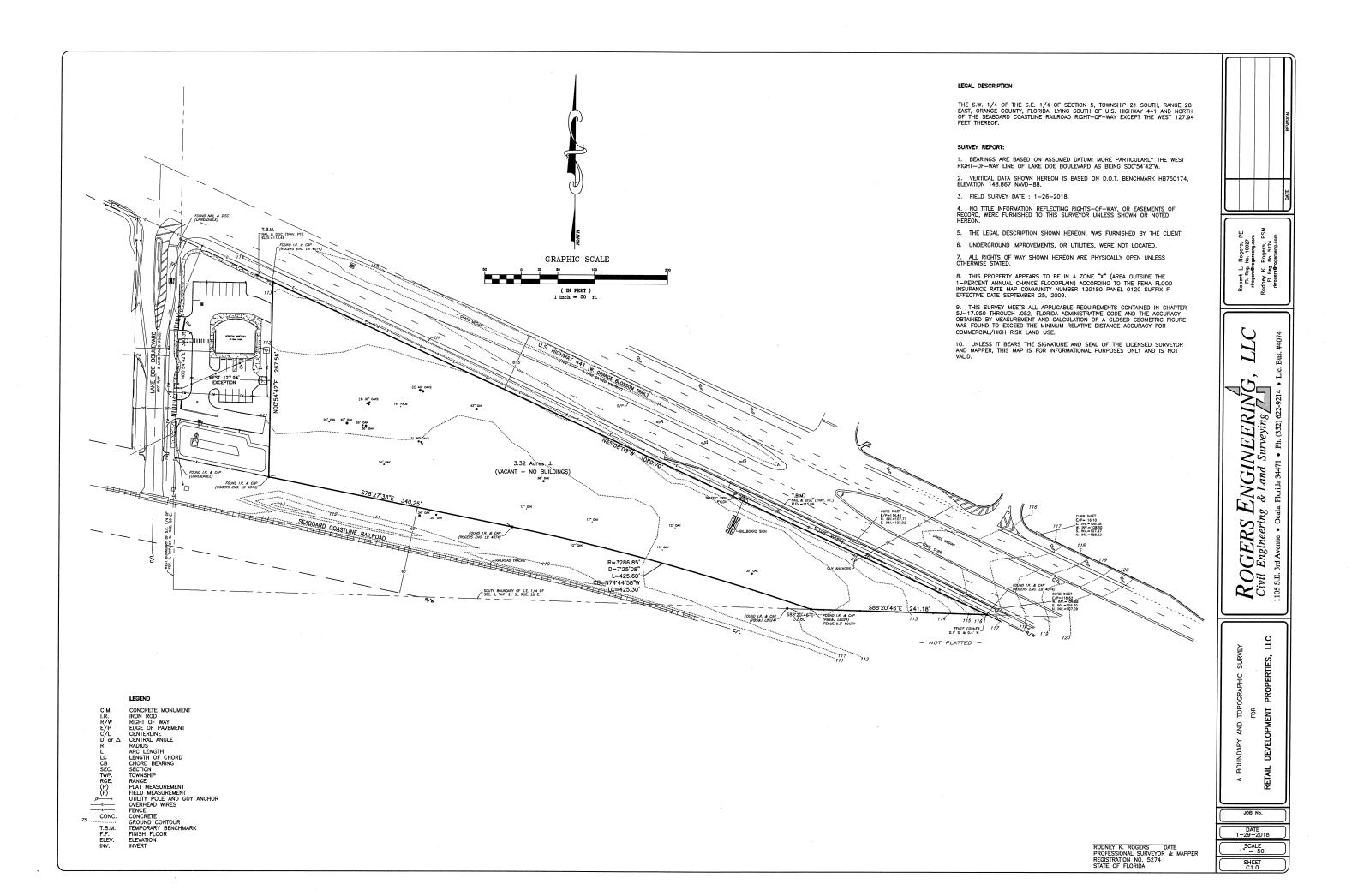
GERS ENGINEERING
Engineering & Land Surveying
34d Avenue • Ocala, Florda 34471 • Ph. (352) 622-9214

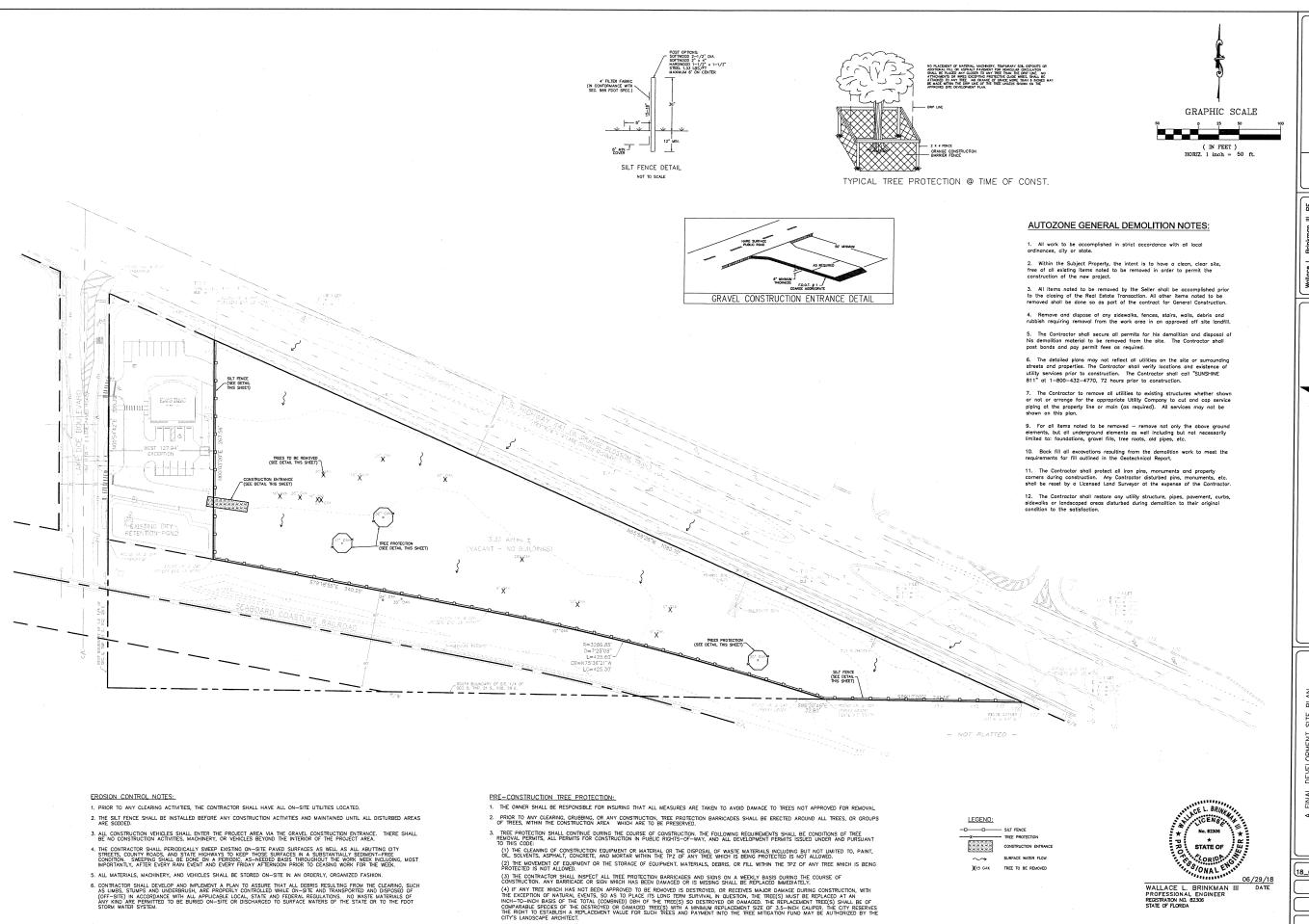
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JOB No. 18_052128000000025 06-29-2018 SCALE AS SHOWN

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Vellace L. Brinkman III. PE. R. no. 82308 whithman forgers are some Rodney K. Rogers, PSM R. Rogers, PSM ricogers@cogers@cogers@cogers. PE. Rogers, PE R. Rogers. No. 10027 intogers@cogers@cogers.

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Ę. ENGINEERING & Land Surveying a, Florida 34471 • Ph. (352)

Engineering & 3. 3rd Avenue • Ocala, 1 ROGERS Livil Engineering 1105 S.E. 3rd Avenue • Oct

L DEVELOPMENT SITE P FOR AUTOZONE CITY OF APPIKA, FL

JOB No. 18_052128000000025 DATE 06-29-2018 SCALE AS SHOWN SHEET C2.0

I. SITE DESCRIPTION:

(1) NATURE OF CONSTRUCTION ACTIVITY:

THIS PROJECT INCLUDES CONSTRUCTION OF A BERM AND SWALE WITHIN AUTOZONE/IHOP PROJECT LIMITS.

INDICE OF MAJOR SUIL DISTURBING ACTIVITIES:

(a) THE CONTRACTOR SHALL BE REQUIRED TO PREPARE A SITE SPECIFIC EROSION CONTROL PLAN ALONG WITH A DETAILED CONSTRUCTION SCHEDULE TO INDICATE DATES OF MAJOR GRADING ACTIVITIES AND DETERMINE SEQUENCES OF TEMPORARY AND PERMANENT SOIL DISTRIBUTING ACTIVITIES ON ALL PORTIONS OF THE PROJECT.

(b) THE CONTRACTOR WILL BE REQUIRED TO MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL VARIATIONS, CONSTRUCTION ACTIVITY VARIATIONS, OR AS DIRECTED BY THE ENGINEER.

(c) APPLICABLE EROSION CONTROL DEVICES AND IMPLEMENTATION PROCEDURES ARE SUPPLIED IN THE POOT EROSION AND SEDIMENT CONTROL MANUAL.

(d) THE ENGINEER IS RESPONSIBLE FOR DETERMINING IF ANY MODIFICATIONS OR ADDITIONAL CONTROLS ARE REQUIRED AND TO OBTAIN DEPLOYMENT SCHEDULES FOR THE IMPLEMENTATION OF ALL ONAL EROSION CONTROL DEVICES FROM THE CONTRACTOR

(3) GENERAL NOTES

(a) ALL EROSION AND SEDIMENT CONTROL DEVICES FOR EACH PHASE OF WORK ARE TO BE INSTALLED PRIOR TO BEGINNING WORK ON THAT PHASE.
(b) INSTALL EROSION AND SEDIMENT CONTROL DEVICES WHERE LISTED IN THE CONTROLTS'S APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR PERIMETER CONTROLS BEFORE THE LAND IS

(c) PROVIDE SEDIMENT BARRIERS WHERE LISTED IN THE CONTRACTOR'S APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR DITCH BLOCKS DURING CONSTRUCTION. (d) PROVIDE INLET PROTECTION SYSTEMS AT INLET OPENINGS.

(e) COVER OR STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE.

(e) CUVER OR STABILIZE DISTORBED AREAS AS SOUN AS POSSIBLE.

(f) DO NOT DISTURB AN AREA LUMIL IT IS NECESSARY FOR CONSTRUCTION TO PROCEED.

(g) TIME CONSTRUCTION ACTIVITIES TO LIMIT IMPACT FROM SEASONAL CLIMATE CHANGES OR WEATHER EVENTS.

(h) DO NOT REMOVE PERIMETER CONTROLS UNTIL AFTER ALL UPSTREAM AREAS ARE FULLY STABILIZED AND PERMANENT VEGETATION IS ESTABUSHED.

(4) PROJECT AREAS:

THE ESTIMATED TOTAL PROJECT AREA IS 3.32 ACRES.

(5) RUNOFF COEFFICIENTS BEFORE Cw(B), DURING Cw(D) AND AFTER Cw(A) CONSTRUCTION:

GRASSED SHOULDERS ADJACENT TO ROADWAY: C=0.20 MPFRVIOUS ROADWAYS AND PAVED SHOULDER: C=0.95

DISTURBED AREAS, EXPOSED SOIL, ETC., DURING CONSTRUCTION: C=0.20

WEIGHTED RUNOFF COFFFICIENT:

BEFORE: Cw(B)=0.44 DURING: Cw(D)=0.59 AFTER: Cw(A)=0.59

THE RUNDEF COEFFICIENT DURING CONSTRUCTION, C4(D), IS CALCULATED ASSUMING THAT THE MAXIMUM ALLOWABLE AREA OF SOIL IS DISTURBED DURING CONSTRUCTION, AND THE REMAINING MOUNT IS THE EXISTING IMPERVIOUS AND GRASSED SHOULDER AREAS.

(6) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE:
THE SOIL SURVEY INDICATES THAT THE MAJORITY OF THE SURFICIAL SOILS LOCATED ALONG ONSITE ARE PREDOMINANTLY SAND.

NRCS SOILS DATA FOR ORANGE COUNTY IS PROVIDED IN THE DRAINAGE DOCUMENTATION. MORE DETAILED INFORMATION REGARDING GENERALIZED SOIL INFORMATION IS PROVIDED IN THE DRAINAGE DESIGN DOCUMENT FOR THIS PROJECT.

(7) ESTIMATED DRAINAGE AREA AND AVERAGE SLOPE OF DRAINAGE AREA FOR EACH OUTFALL:

(a) SITE MAP: THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAP (b) DRAINAGE MAP: PLEASE REFER TO DRAINAGE REPORT.

THE PROPOSED STORMWATER RUNOFF WITHIN WILL BE FULLY RETAINED ON-SITE WITH NO DISCHARGE.

(9) THE OUTFALLS DRAIN INTO WBID 1329E (VERIFIED IMPAIRED) FOR MERCURY IN FISH PER FDEP 303(d) LIST.

(a) N/A N/A

(11) NO WETLAND IMPACTS ARE PROPOSED.

(12) DESCRIPTION OF STORMWATER MANAGEMENT: (EXISTING/PROPOSED)

(a) EXISTING STORMWATER PRIMARILY INFILTRATES INTO THE EXISTING SANDY SOILS, WITH DISCHARGE TO THE ADJACENT RAILROAD RIGHT-OF-WAY. (b) PROPOSED STORMWATER RUNOFF WILL BE RETAINED IN ON-SITE DRY RETENTION PONDS WITH NO OFF-SITE DISCHARGE.

II. CONTROLS:
EROSION AND SEDIMENT CONTROLS

(1) WATER QUALITY MONITORING:

(a) WATER QUALITY MONITORING SHALL BE CONDUCTED IN ACCORDANCE WITH THE SPECIAL CONDITIONS OF ALL ENVIRONMENTAL PERMITS OR BY THE CONTRACTOR UPON THE OBSERVATION THAT WATER QUALITY STANDARDS MAY BE WOLATED BY THE CONTRACTOR'S ACTIVITIES. MONITORING LOCATIONS MAY BE SPECIFIED IN THE ENVIRONMENTAL PERMIT OR MAY BE DESIGNATED BY THE CONTRACTOR AND APPROVED BY THE PROJECT ADMINISTRATOR.

(b) THE PROJECT ADMINISTRATOR WILL BE RESPONSIBLE FOR MONITORING ANY ACTIVITIES FOR VIOLATION OF WATER QUALITY STANDARDS AS THEY RELATE TO TURBIDITY [NO GR NEPHELOMETRIC TURBIDITY UNITS (NTU) ABOVE BACKGROUND OR GREATER THAN 1 NTU ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OUTSTANDING FLORIDA WATERS (OFW)]

(c) IF WATER QUALITY STANDARDS ARE MOLATED, CONSTRUCTION SHOULD BE STOPPED IMMEDIATELY, THE ENVIRONMENTAL PERMIT CONDITIONS FOLLOWED AND ERGSION AND SEDIMENT CONTROL DEVICES REEVALUATED AND APPROVED BY THE ENGINEER PRIOR TO ANY CONTINUATION OF ACTIVITY, MONITORING ACTIVITIES AND TURBIDITY READINGS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION REPORT AND CONTINUED UNTIL TURBIDITY READINGS FALL BELOW AN ACCEPTABLE LEVEL (29 NTU ABOVE BACKGROUND OR 1 NTU ABOVE BACKGROUND FOR DIRECT DISCHARGES TO

(d) WATER QUALITY MONITORING MAY BE CONDUCTED DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE PROJECT ENGINEER.

(2) STABILIZATION PRACTICES:

(a) STABILIZATION MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO MAINTAINING, ESTABLISHING AND USING VEGETATION, APPLYING MULCHES, SODDING, SEEDING, BMP'S AND THE USE OF ROLLED EROSION CONTROLLED PRODUCTS. WHEN CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. SIDE SLOPES SHALL BE STABILIZED WITH PERFORMANCE SODDING OR SEEDING OR ANY OTHER APPROVED METHOD OF STABILIZATION INCLUDED IN THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGN AND REVIEW MANUAL (EASC MANUAL).

(b) STABILIZATION SHALL TAKE PLACE AS SOON AS PRACTICAL IN PORTIONS OF THE PROJECT WHERE CONSTRUCTION ACTIVITIES HAVE CEASED, BUT NO LATER THAN 7 DAYS AFTER ANY CONSTRUCTION ACTIVITY CEASES EITHER TEMPORARILY OR PERMANENTLY.

(c) ALL EROSION CONTROL DEVICES SHALL BE INSTALLED ACCORDING TO THE CONTRACT DOCUMENTS, AND THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN.

(d) ANY TEMPORARY MATERIAL USED FOR POLLUTION OR EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT AND FINAL STABILIZATION OF THE PROJECT HAS BEEN ACHIEVED.

(e) SEDIMENT BARRIERS SHOULD BE USED ALONG THE LENGTH OF THE PROJECT WHERE THE GROUND SLOPES AWAY FROM THE RIGHT-OF-WAY OR WHERE THERE IS POTENTIAL FOR SEDIMENT TO BE DIRECTED OFF-SITE, PARTICULAR CARE SHOULD BE USED WHEN THERE ARE WETLANDS OR WATERS OF THE U.S. ARE INVOLVED, SEDIMENT BARRIERS SHOULD BE USED AROUND THE PERIMETE

(f) SPACING OF SEDIMENT BARRIERS USED AS DITCH OR SWALE CHECKS/DAMS SHOULD BE BASED UPON THE HEIGHT OF THE BARRIER AND THE SLOPE OF THE DITCH OR SWALE.

(q) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFYING SOIL TRACKING PREVENTION SYSTEMS OR PROCEDURES AS NEEDED.

(3) STRUCTURAL PRACTICES FOR EROSION AND SEDIMENT CONTROL:

(a) ROLLED EROSION CONTROL PRODUCTS (ARTIFICIAL COVERINGS)

PURPOSE: TO PROTECT DISTURBED SLOPE SURFACES AGAINST EROSION DUE TO RAINFALL OR FLOWING WATER.

(1) USED FOR PAUSES IN CONSTRUCTION DUE TO INCLEMENT WEATHER OR OTHER CIRCUMSTANCES. COULD INCLUDE NATURAL OR SYNTHETIC FIBER MATS, PLASTIC SHEETING OR NETS.

(2) USED FOR EROSION CONTROL THAT FACILITATES PLANT GROWTH WHILE PERMANENT GRASS IS ESTABLISHED. COULD INCLUDE BIODEGRADABLE EROSION CONTROL BLANKETS INSTALLED ON A SEEDED AREA, ON FILL SLOPES OR IN DITCHES.

(3) USED TO STABILIZE DRAINAGE CHANNELS. CONSULT E&SC MANUAL TO DETERMINE CORRECT PRODUCT TYPE FOR CHANNEL STABILIZATION

(b) RUNOFF CONTROL STRUCTURE (TEMPORARY SLOPE DRAIN)

PURPOSE: TO PROTECT HILLSIDE SURFACES AGAINST EROSION DUE TO CONCENTRATED FLOW OF RUNOFF WATER.

(1) USED ON FILL SLOPES AND CUT SLOPES TO REDUCE SEDIMENT TRANSPORT AND COULD INCLUDE TEMPORARY SLOPE DRAINS, GRASS-LINED CHANNELS, ROCK-LINED CHANNELS AND CHECK

(2) RUNOFF CONTROL STRUCTURES TYPICALLY DISCHARGE TO A SEDIMENT BASIN.

(c) SEDIMENT BASIN (CONTAINMENT SYSTEM)
PURPOSE: A CONTAINMENT SYSTEM IS DESIGNED TO DETAIN AN ADEQUATE VOLUME OF RUNOFF, REDUCE THE VELOCITY OF FLOW THROUGH THE SYSTEM, ALLOW FOR SETILEMENT OF SUSPENDED SOLIDS
AND REGULATE THE DISCHARGE RATE FROM THE SEDIMENT BASIN.

(1) SEDIMENT BASINS MUST BE PLACED IN STRATEGIC LOCATIONS WITHIN THE ACTIVE AREAS OF CONSTRUCTION. CONTRIBUTING AREA AND SIZE OF TARGET SOIL PARTICLES WILL DICTATE WHETHER THE
SEDIMENT BASIN WILL BE TYPE 1, TYPE 2 OR TYPE 3 SYSTEM.

(2) THE USE OF SMALLER PRE-SEDIMENTATION BASINS USED IN CONJUNCTION WITH LARGER PERMANENT RETENTION/DETENTION PONDS ARE EFFECTIVE IN CAPTURING LARGER VOLUMES OF SEDIMENTS.
THIS TECHNIQUE REQUIRES PERCIOCALLY SCHEDULED REMOVAL OF THE ACCUMULATED SEDIMENTS.

(d) SEDIMENT BARRIERS (TEMPORARY CONSTRUCTION SITE BMP)
PURPOSE: SEDIMENT BARRIERS EITHER OBSTRUCT FLOW OR PREVENT THE PASSAGE OF WATER WHILE CONSTRUCTION ACTIVITIES OCCUR. SMALLER SEDIMENT BARRIERS MAY FUNCTION AS A SMALL
SEDIMENT CONTAINMENT SYSTEM OR AS A METHOD TO REDUCE FLOW VELOCITY.

(1) THESE CONSTRUCTION BMP CAN INCLUDE SYNTHETIC BALES, STAKED SILT FENCE, TURBIDITY BARRIERS, STORM SEWER INLET BARRIERS, ROCK BARRIERS, GEOSYNTHETIC BARRIERS, ETC.
(2) APPROPRIATE LOCATIONS INCLUDE STEET PERMETER, BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION, BELOW THE TO OF EXPOSED AND EROOBIES LOPES, ALONG THE TOE OF
STREAM AND CHANNEL BANKS, AROUND DRAINS AND INLETS LOCATED IN LOWPOINTS OR THE DOWNSTREAM EDGE OF AREAS UNDERGOING VERTICAL OR BOX CULVERT CONSTRUCTION ACTIVITIES.
(3) INAPPROPRIATE LOCATIONS FOR THESE SAME MEASURES INCLUDE PRABALLEL TO A HILLSIDE CONTOURN CONTAINTED FLOW MILLSES PROPERLY REINFORCED), UPSTREAM OR
DOWNSTREAM OF CULVERTS WITH CONCENTRATED FLOW, UNLESS PROPERLY REINFORCED), UPSTREAM OR
DOWNSTREAM OF CULVERTS WITH CONCENTRATED FLOW, UNLESS PROPERLY REINFORCED).

(e) FLOATING TURBIDITY BARRIER
PURPOSE: USED IN PERMANENT BODIES OF WATER TO RETAIN SEDIMENT AND FLOATING DEBRIS FROM A CONSTRUCTION AREA SO THAT REMOVAL OR CONTAINMENT OF THE MATERIAL IS POSSIBLE.
(1) TYPE I, LIGHT DUTY, IS USED WHERE THERE IS LITTLE OR NO CURRENT, NO WIND AND NO WAVE ACTION.
(2) TYPE II, MODERATE DUTY, IS USED WITH SOME CURRENT (2.55 FT. PER SECOND) AND SOME EXPOSURE TO WIND.
(3) TYPE III, HEAVY DUTY, IS USED WITH GREATER CURRENT (3.5-50 FT. PER SECOND), MODERATE WIND AND WAVE ACTION.
(4) BARRIER MUST BE ATTACHED AT BOTH ENDS AND WEIGHTED ON THE BOTTOM
(5) MULTIPLE LURSE OF BARRIER MUST BE USED IN SOME CIRCUMSTANCES FOR ADDITIONAL PROTECTION.
(6) STANDARD PANELS FOR WATER DEPTHS ARE 5.0'. ADDITIONAL PANELS CAN BE USED FOR WATER DEPTHS > 5.0'.

(f) STAKED TURBIDITY BARRIER
PURPOSE: THIS ITEM IS COMMONLY USED IN AREAS WHERE CONTINUOUS CONSTRUCTION ACTIVITIES CHANGE THE NATURAL CONTOURS AND DRAINAGE RUNOFF PATTERNS.
(1) COMMONLY USED IN LAKES AND STREAMS AS A SEDIMENT CONTAINMENT SYSTEM. SHOULD NOT BE USED WHERE WATER CURRENTS MOVE THE CURTAIN AND DISLODGE COLLECTED SEDIMENTS.
(2) MAXIMUM DEPTH OF PANEL IS 3'-8'.
(3) POST MUST BE A MINIMUM LEXPICH OF 5.0' AND A MINIMUM OF 10" OF FABRIC MUST BE IMBEDDED IN THE GROUND.

(g) INLET PROTECTION SYSTEM
PURPOSE: ANY OF A NUMBER OF SEDIMENT BARRIERS THAT EITHER PREVENT SEDIMENT FROM ENTERING AN INLET OR TRAP THE SEDIMENTS ONCE THEY ENTER THE INLET.

(1) TYPICAL APPLICATIONS INCLUDE ROCK BARRIERS, FRAME AND FILTER BARRIERS, CURB INLET "SUMP" BARRIER, CURB INLET DIVERSION BERM, CURB AND GUTTER SEDIMENT CONTAINMENT SYSTEM OR CURB INLET INSET.

CURB MILL INSEL.

(2) SHOULD BE INSTALLED ONLY WHEN CONSTRUCTION ACTIVITIES ARE ON-GOING AND ONLY WHERE SUMP CONDITIONS EXIST.

(3) SHOULD NOT BE USED WHEN CONSTRUCTION IS COMPLETE AND SHOULD NOT BE USED IN AREAS WHERE FLOODING COULD ENCROACH INTO THE TRAVEL LANES.

(h) SOIL TRACKING PREVENTION DEVICE
PURPOSE: TEMPORARY STRUCTURES TO ASSIST WITH THE REMOVAL OF SOIL MATERIAL CAPTURED ON VEHICLE TIRES BEFORE THE VEHICLES ENTER THE ROADWAY.

(1) USE ONE DEVICE FOR MILE WITH A MINIMUM OF TWO PER PROJECT.

(2) USE ADDITIONAL DEVICES FOR CONSTRUCTION AREAS THAT ARE NOT ADJACENT TO THE ROAD RIGHT-OF-WAY AND NO ACCESS IS PROVIDED THROUGH A SOIL TRACKING PREVENTION DEVICE. (3) RRR PROJECTS SHOULD BE HANDLED ON A CASE BY CASE BASIS.

CHEMICAL TREATMENTS FOR EROSION AND SEDIMENT CONTROL:
CHEMICAL TREATMENT-POLYACRYLANDIES (PAM AND PAM BLENDS)
PURPOSE: REDUCE SOIL EROSION THROUGH SOIL BINDING, USED AS A WATER TREATMENT ADDITIVE TO REMOVE SUSPENDED SOLIDS FROM RUNGFF, PROVIDES APPROPRIATE MEDIUM FOR GROWTH OF
VEGETATION FOR STABILIZATION AND INCREASES INFILTRATION BY INCREASING SIZE OF SOIL PARTICLE.

YESTERING THE STABILIZATION AND INCREASES INFILINATION BY INCREASING SIZE OF SOUL PARTICLE.

(1) CAN BE USED ON DISTRIBED SOULS. CAN BE USED IN CONJUNCTION WITH OTHER BIRP'S TO ENHANCE PERFORMANCE. CAN BE APPLIED IN DISSOLVED FORM WITH WATER, CAN BE USED AS A DRY POWDER, CAN BE USED IN GRANULAR FORM OR MAY BE USED IN THE FORM OF FLOC LOGS.

(2) HICHER CONCENTRATIONS OF PAM'S DON'T INCREASE THE EFFECTIVENESS OF THE PRODUCT.

(3) ACTIVELY WORKED AREAS WILL REQUIRE REAPPLICATION TO REMAIN EFFECTIVE.

(4) PAM SHOULD NOT BE USED WHERE THERE IS A POTENTIAL FOR EQUIPMENT CLOGGING OR TOXICITY IS A CONCERN.

(b) CHEMICAL TREATMENT - ALUM:
PURPOSE: REMOVE SUSPENDED SOLIDS AND POLLUTANTS BY ENMESHMENT AND ABSORPTION INTO ALUM. COLLECT FLOCS OF SUSPENDED SEDIMENTS IN RUNOFF AND STORE THEM IN SEDIMENT BASINS OR
STORMWATER MANAGEMENT FACILITIES.

SIGNAMARIER MANAGEMENT FACILITIES.

(1) ALUM IS INJECTED INTO THE FLOW STREAM CONTAINING TURBID WATER. INJECTION IS CONTROLLED BY VARIABLE SPEED CHEMICAL PUMP TO FEED ALUM AT MULTIPLE TREATMENT POINTS. ALUM TREATMENT OF RUNGET THAT CONTAINS LIMEROCK FROM UNPAYED SURFACES.

(2) ALUM TREATMENT REQUIRES CLOSE MONITORING OF DOSAGE, COMBINATION WITH OTHER COMPOUNDS MAY VIOLATE TOXICITY REQUIREMENTS AND THE USE OF ALUM MAY LOWER PH LEVELS.

(5) DEWAITERING OPERATIONS (OPTIONAL — BASED ON PROJECT APPLICABILITY):

DESCRIPTION: DEWATERING OPERATIONS ARE PRACTICES THAT MANAGE THE DISCHARGE OF TURBID WATER WHEN WATERS OTHER THAN STORMWATER AND ACCUMULATED SURFACE WATERS MUST BE
REMOVED FROM A LOCATION SO THAT CONSTRUCTION WORK MAY BE ACCOMPLISHED. THESE WATERS CAN INCLUDE GROUNDWATER, WATER FROM COFFERDAMS, WATER DIVERSIONS AND
WATERS USED DURING CONSTRUCTION THAT MUST BE REMOVED FROM A WORK AREA.

(a) ENVIRONMENTAL AGENCIES ARE ESPECIALLY CONCERNED WITH THE PROTECTION OF WETLANDS FROM DRAWDOWN EFFECTS, PROTECTING RECEIVING BODIES FROM SEDIMENTATION AND POSSIBLE
CAPACITY LIMITATIONS.

(b) THREE PRIMARY METHODS OF DEWATERING COMMONLY USED IN FLORIDA ARE RIM-DITCHING, SOCK/PIPE/HORIZONTAL WELLS AND WELL-POINT SYSTEMS.

(c) METHODS FOR CONTAINING SEDIMENTATION CAN INCLUDE A COMBINATION OF BMP AND SEDIMENT TRAPS, SEDIMENT BASINS, GRAVITY BAG FILTERS, WEIR TANKS, DEWATERING TANKS, SAND

MEDIA/PRESSURIZED BAGS AND CHEMICAL TREATMENTS.

COASTAL OPERATIONS (OPTIONAL — BASED UPON PROJECT LOCATION):
DESCRIPTION: CONSTRUCTION SITES IN COASTAL AREAS PRESENT UNIQUE CHALLENGES DUE TO HIGHER WIND SPEEDS, SALINE LADEN AIR MOISTURE AND WAVE ACTION THAT REQUIRE USING APPROPRIATE ERSONN CONTROL TECHNIQUES THAT CAN WITHSTAND THESE ELEMENTS.

(a) PARTICULAR CONCERNS DURING THE DEVELOPMENT OF ERGSION CONTROL PLANS IN COASTAL OPERATIONS CAN INCLUDE THE RESITANCE OF ERGSION CONTROL MATERIALS TO SALT WATER, HIGH WATER TABLES, SOIL COMPACTION AND SITE DEVELOPMENT DUE TO THE TYPICAL SANDY SOILS LOCATED IN THESE AREAS AND SOIL STABILIZING VEGETATION MUST BE COALT TOLERANT.

(b) HIGH ENERGY ENVIRONMENT SHOULD BE CONSIDERED WHEN SELECTING CONTROL DEVICES, FREQUENT MAINTENANCE IS NORMALLY REQUIRED FOR ERGSION CONTROL DEVICES AND TIDAL FLUCTUATIONS MUST BE CONSIDERED WHEN SELECTING THE METHODS OF ERGOSION CONTROL DEVICES AND TIDAL FLUCTUATIONS (c) TEMPORARY CONTROL TECHNIQUOGIES FOR THE COASTAL ENVIRONMENT COULDE THE USE OF COMPOST/WOOD MULICHING, HYDRAULIC MULICHING, SOIL BINDERS AND TEMPORARY HYDROSEEDING.

(d) PERMANENT CONTROLS COULD INCLIDE THE USE OF POLYWER—ENHANCED ARMORING, PRESERVING EXISTING VEGETATION WHEN POSSIBILE, ESTABUSHING PERMANENT SALT—TOLERANT VEGETATION, CONSTRUCTION SITE BARRIERS (SHEET PILES/CONCRETE WALLS/EARTHERN BERMS), NATURAL/SYNTHETIC GEOTEXTILES, MATS, OR GEOGRIDS.

III. OTHER CONTROLS:

(a) THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION ACTIVITIES.
(b) ALL FERTILIZER AND CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
(c) NO SOLID MATERIALS, INCLUDING BUILDING AND CONSTRUCTION MATERIALS, SHALL BE DISCHARGED TO METLANDS OR BURIED ON-STE.
(d) ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY STATE REGULATIONS.

(2) OFF-SITE VEHICLE TRACKING - WILL BE CONTROLLED BY THE FOLLOWING METHODS:

(3) STATE AND LOCAL REGULATIONS: PERMITS WILL BE REQUIRED FROM THE FOLLOWING AGENCIES:

CITY OF APOPKA SJRWMD FDOT

(4) NON-STORMWATER (INCLUDING SPILL REPORTING)
THE CONTRACTOR WILL PROVIDE THE ENDINEER WITH AN EROSION CONTROL PLAN THAT WILL INCLUDE SPILL CONTAINMENT, REPORTING, AND RESPONSES. THE PLAN SHALL SPECIFY MANAGEMENT PRACTICES AND CONTAINMENT METHODS WILL BE USED TO PREVENT POTENTIAL POLLUTANTS (FUEL, LUBRICANTS, HERBICIDES, ETC.) FROM SPILLING ONTO THE SOIL OR SURFACE WATERS. IF A SPILL DOES OCCUR, OR IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, CONTACT THE DISTRICT CONTAMINATION IMPACT COORDINATOR.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIRS OF ALL EROSION AND SEDIMENT CONTROL DEVICES AND REMOVAL, OF EROSION AND SEDIMENT CONTROL DEVICES WHEN NOTICE OF TERMINATION IS MALED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND PROPER DISPOSO FEDIMENT BUILDUP THROUGH THE LIFE OF THE INSTALLED REGION AND SEDIMENT CONTROL

(1) ALL CONTROL MEASURES WILL BE MAINTAINED DAILY BY THE CONTRACTOR AND ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED IMMEDIATELY.

IMMEDIATELY.
(2) SODDING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
(3) SYMHETIC BALES SHALL BE MANTAINED TO ENSURE THEIR USEFULNESS AND NOT BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.
(4) SYMHETIC CONSTRUCTION ENTRANCES SHALL BE MAINTAINED TO PREVENT CLOGGING OF ROCK BEDDING WHICH MAY IMPEDE THE USEFULNESS OF THE STRUCTURE.

(1) THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD WEEKLY RAINFALL IN ACCORDANCE WITH THE NPDES PERMIT, ALL EROSION CONTROL DEVICES MUST BE INSPECTED WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.5 NICHS OR GREATER. (2) ALL EROSION AND WATER POLLUTION ABATEMENT AND CONTROL MEASURES WILL BE INSPECTED DAILY BY CONTRACTOR'S PERSONNEL WHO ARE F.D.E.P. CERTIFIED STORMWATER MANAGEMENT INSPECTORS.

(3) THE CONTRACTOR SHALL COMPLETE ALL SWPPP INSPECTION REPORT FORMS REQUIRED FOR THE NPDES PERMIT.

(1) THE CONTRACTOR SHALL SUBMIT A WEEKLY REPORT TO THE DEPARTMENT DOCUMENTING THE DAILY INSPECTIONS AND MAINTENANCE OR REPAIRS TO THE SEDIMENT CONTROL DEVICES. THE CONTRACTOR SHALL MAINTAIN ALL REQUIRED REPORTS AND COMPLETE ALL SWPPP INSPECTION FORMS. CONTRACTOR SHALL MAINTAIN ALL REQUIRED REPORTS AND COMPLETE ALL SWPP INSPECTION FORMS TO PROPERTY OF THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION, SHALL BE INCLUDED IN THE INDIVIDUAL COSTS OF THE EROSION CONTROL DEVICES OF THE PROJECT OF THE PROPERTY OF THE PROJECT OF THE PROJEC



06/29/18

ENGINEERI 1g & Land Surveying Ocala, Florida 34471 • Ph. (352) 62 Engineering & \mathbf{S} GER RO Civil 1 O

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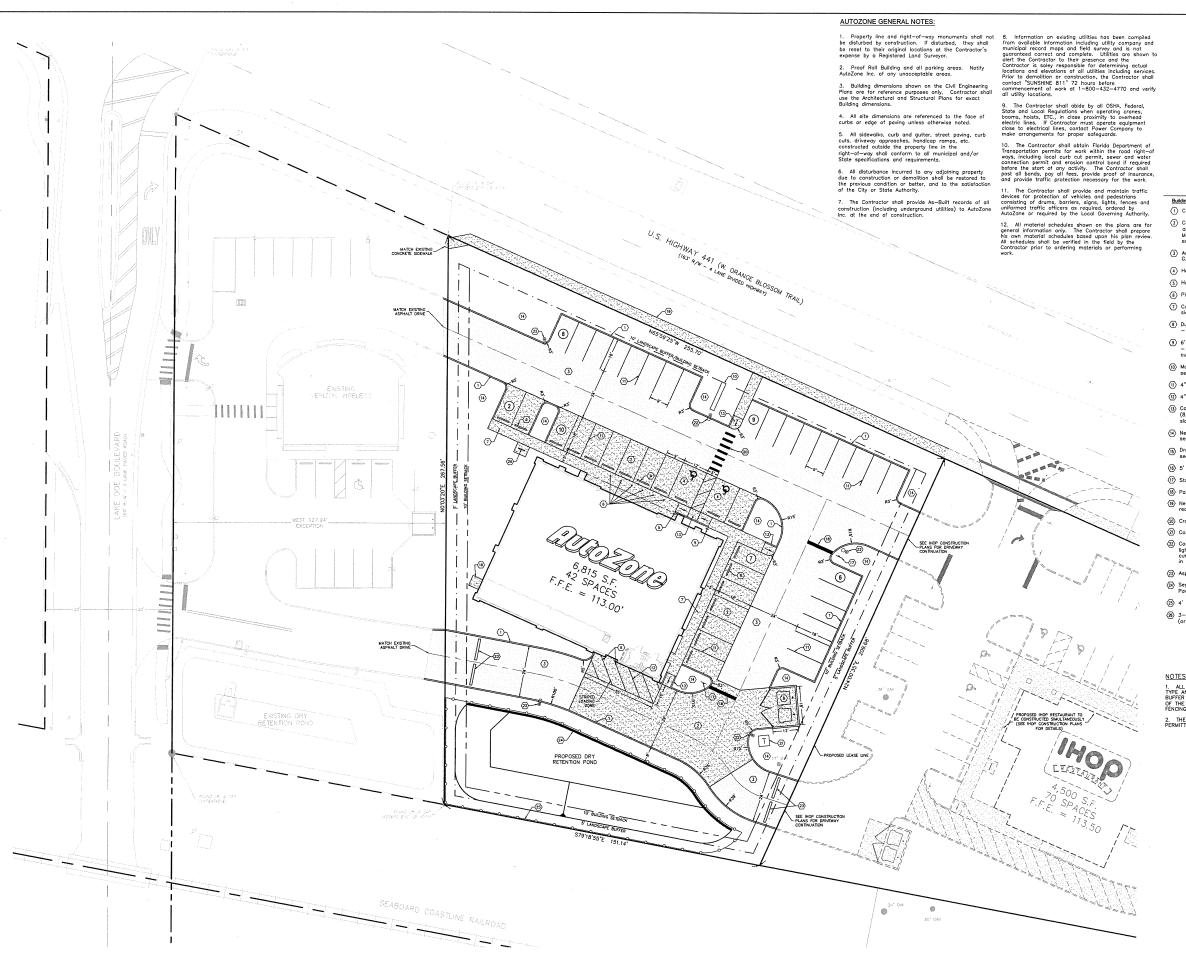
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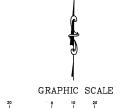
AL DEVELOPMENT SITE F
FOR
AUTOZONE
OITY OF APOPKA, FL
ater Pollution Prevention

Plan

18_052128000000002 DATE 06-29-2018

> SCALE AS SHOWN SHEET





KEYNOTES

Building & Paving

(1) Concrete curb - Type "D" per FDOT Index #300

(IN FEET) HORIZ. 1 inch = 20 ft

- (2) Concrete paving see detail 4/C1A. Expansion and Control joints see details 21 & 22/C6.0 Maximum spacing for Control joints is 15'-0' o.c. each way.
- 4 Handicap parking area see details 6 & 7/C6.0
- 3 Handicap parking sign see detail 12/C6.0
- (6) Pipe quard see details 14, 15 & 16/C6.0
- (7) Concrete sidewalk see detail 19 & 20/C6.0 for sidewalks around building.
- (8) Dumpster layout 6' high wood enclosure w/ gates see details 8, 9, 10 & 11/C6.0
- (10) Monument Sign. See signage drawings (Under separate permit)
- (1) 4" wide parking stripe painted white (typ.)
- (12) 4" wide diagonal stripes painted white @ 2 ft. o.c.
- (I) Concrete handicap ramp maximum slope 1:12 (8.33%) (per A.D.A. requirements). Maximum cross slope 1:50 (2.00%)
- (15) Drainage downspout connection location see detail 3/C6.0
- (16) 5' × 5' concrete pad
- (18) Pavement markings see detail 24 & 25/C6.0
- (19) New sidewalk to meet all local & state D.O.T. requirements
- (20) Crosswalk pavement markings 12" white 3' 0/C
- (2) Concrete light pole bases see sheet LP.1 for lighting specifications. Locate 3'—0" from back of curb or sidewalk to center of base. Aim light fixture in direction as indicated.
- (3) Asphalt speed bump 18" wide x 3.5" max. height
- Segmental retaining wall with safety railing see Paverscape plans (separate permit required)
- (28) 3-loop wave style bike rack (5-bike capacity) (or approved equal)

2. THE WALL AND GROUND SIGNS ARE TO BE PERMITTED SEPARATELY.



NUMBER OF PARKING SPACES



WALLACE L. BRINKMAN III PROFESSIONAL ENGINEER REGISTRATION NO. 82306 STATE OF FLORIDA

Wollace L. Brinkman III, PE F. Rey, No. 82306 whithmand-operang-com Rodney K. Rogers, PSM F. Rey, No. 5274 rincoperationspaces R. Rey, No. 1027 ringers@coperang.com

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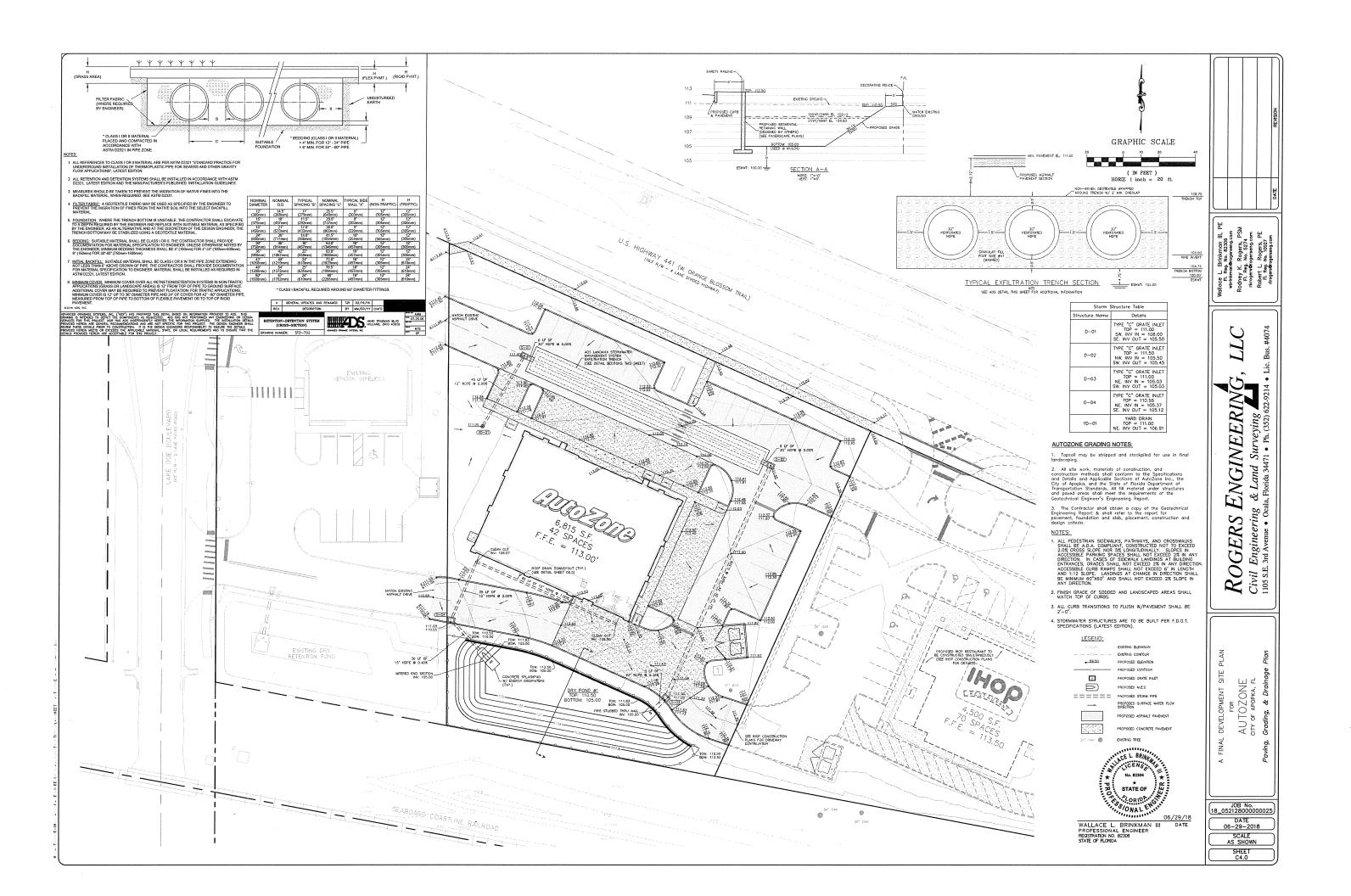
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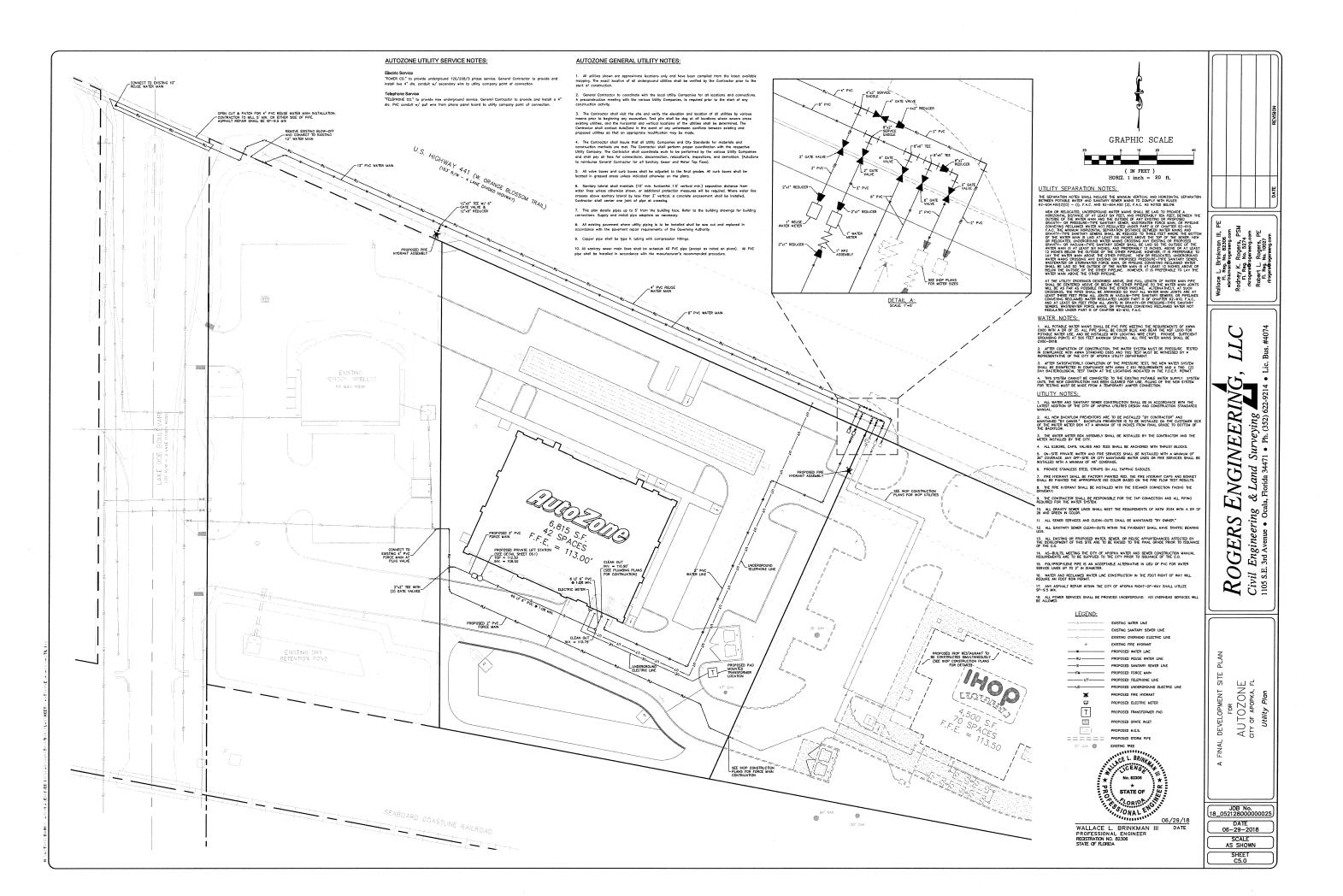
ROGERS ENGINEERING, Civil Engineering & Land Surveying

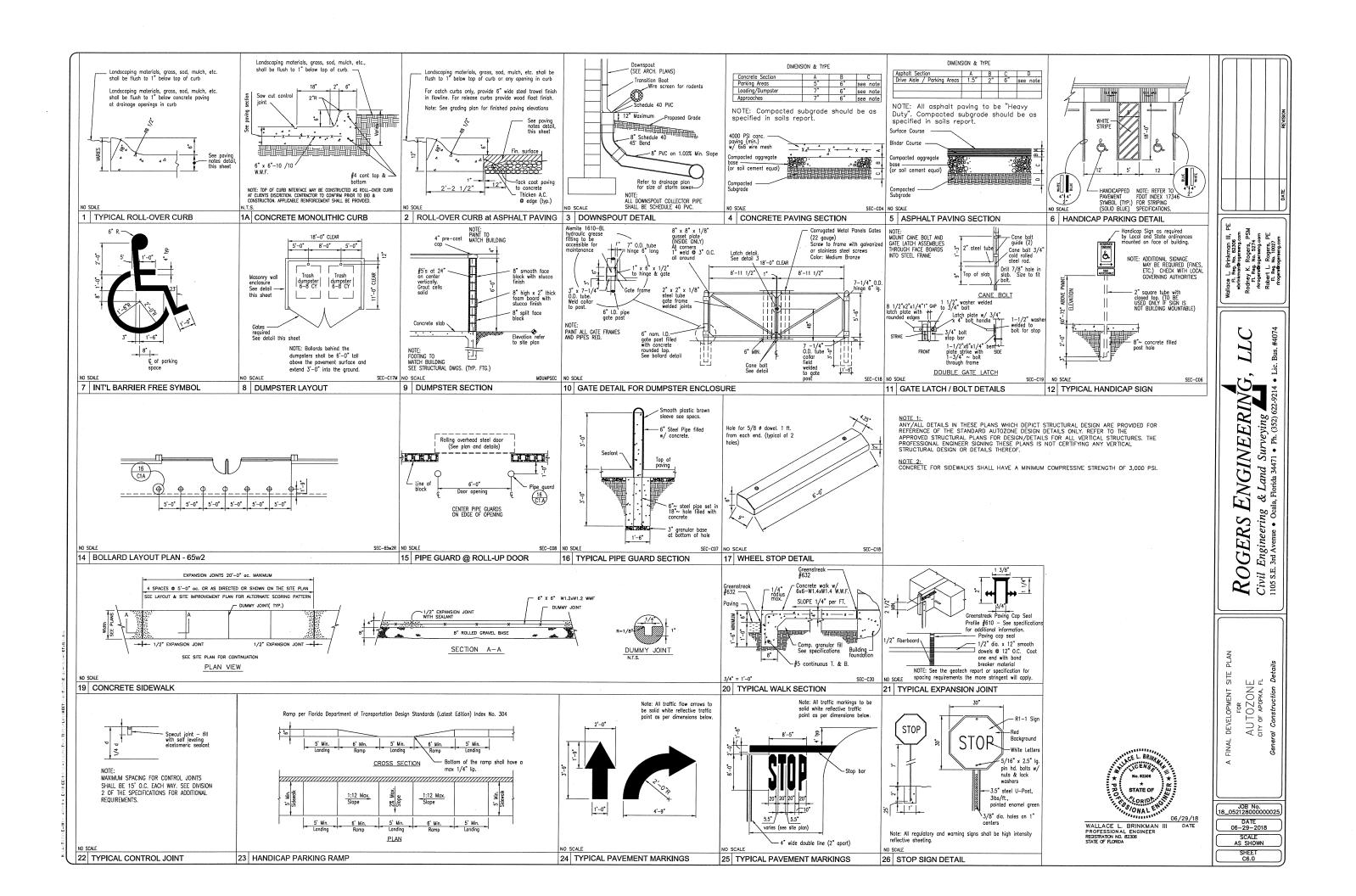
L DEVELOPMENT SITE FOR FOR OUT OF APOPKA, FL SITE LOYOUT PION

JOB No. 18_052128000000025 DATE 06-29-2018 SCALE AS SHOWN

SHEET C3.0







SCOPE: Supply one complete ECONO-GP Pre-Fab Lift Station, per design.

Pumps shall be capable of grinding and pumping domestic & commercial sewage.

Complete system shall be supplied by:

RILEY & Company, Inc. Sanford, FL 32773 (Ph. 407-265-9963)

NO SUBSTITUTIONS - NO ALTERNATES

PUMPS: Submersible grinder pumps shall be HOMA Model GRP. The pumps shall be nstalled in the ECONO-GP FRP wetwell utilizing a dual slide rail system. The grinder unit shall be capable of macerating materials normally found in ersial sewage into a fine slurry which will pass through the pump and the Sch.80 PVC discharge piping.

Oil filled motors are not considered equal to air filled motors and therefore will not be considered an equal to the HOMA PUMPS.

Stator winding shall be open type with Class F insulation and shall be heatshrink fitted into the stator housing. The use of pins, bolts, or other fastening

A heat sensor theromstat shall be attached to the top end of the motor winding and shall be connected in series with the magnetic confactor 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:

Control panel shall be assembled and built by a TUV (UL508A CERTIFIED) manufacturing facility.

The Enclosure shall be NEMA 4X, Fiberglass, minimum 18" high x 16" wide x 6" deep with padlockable draw latch

The enclosure shall have external mounting feet to allow for wall mounting. All hardware shall be stainless steel.

The following components shall be mounted through the enclosure:

- 1- ea. Red Alarm Beacon (Light)
- 1- ea. Alarm Horn
- 1- ea. Generator Receptacle w/ weatherproof cover

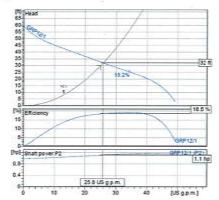
The backpanel shall be fabricated from .125, 5052-H32 marine allow aluminum. All components shall be mounted by machined stainless steel

The following components shall be mounted to backpanel:

- 2- ea. Motor Contactors
- 1- ea. Silence Relay
- 1- ea. Duplex Alternato
- 20- ea. Terminals For Field Connections 6- ea. Terminals For Motor Connections (Single Phase Only)
- 3- ea. Grounding Lugs 1- ea. Battery Back-Up for HL Alarm

The following components shall be included:

- 1- ea. Emergency Circuit Breaker 1- ea. Mechanical Interlock For Emergency And Main Breakers
- 2- ea. Short Circuit Protectors
- 1- ea. Control Circuit Breaker
- 1. ea Hand-Off-Auto Selector Switches
- 2- ea. Pump Run Pilot Lights



COMPONENT SPECIFICATIONS:

All circuit breakers shall be molded thermal magnetic. The mechanical interlock shall prevent the normal and emergency main breakers being energized at the same

An emergency generator receptacle shall be supplied in accordance with DEP standards. The generator receptacle shall be adequately sized to meet the equipment operating

All motor short circuit protection devices must provide for undervoltage release and class 10 overload protection on all three phases. Visable trip indication, test, and reset capability must be provided without opening inner door.

Open frame, across the line, contactors shall be rated per IEC

standards and properly sized per the motor requirements. Contactors shall provide for safe touch power and control

Lightning Arrestor shall meet or exceed the requirements of ANSWEEE Std. C62.21-1984 section 8.6.1. and 8.7.3 shall be supplied by electrician and mounted on the bottom side of the connect ahead of the pump control panel. A green pilot light shall be supplied for each motor. The pilot light shall illuminate each time the motor is called to run. A Red pilot light shall be supplied for control power. The pilot

light shall illuminate when the control power is available inside the control panel.

Relays shall be ice-cube plug in type. Relay contacts shall be rated 10 amp minimum, DPDT. Twenty (20) terminals shall be supplied for field connections.

The terminals shall be rated 25 amps minimum. Each motors over-temperature contact shall be connected to the terminal strip and shall open a contact to de-energize the appropriate motor upon a high temperature within the motor. Ground lugs shall be supplied and appropriately sized for each motor and for service entrance.

The control panel shall be assembled by a TUV (UL508A Certified) manufacturing facility.

PRIMARY PUMP CAPACITY

ELECTRICAL/ VOLTS / PHASE

PUMP DISCHARGE SIZE

IMPELLER DIAMETER

PUMP MANUFACTURES

PRIMARY TDH

PUMP MODEL #

HORSEPOWER

R.P.M.

FASTNERS & APPURTANCES: All fasternes, lifting cables, float cable bracket, hinges, and appurtances shall be made of AISI

A 304SS slide/latch assembly shall be provided for holding the doors open on the wetwell and valve box. Slide rails shall be made of SCH.40 AISI 304SS pipe. Pump lifting cables shall be made of AISI 304 SS. Pump lifting bales shall be made of AISI 304 SS.

EXECUTION

ELEVATIONS

BOTTOM OF WETWELL 105.50

112.50

108.50

107.50

107.00

106.50

36"

TOP OF WETWELL

HIGH LEVEL ALARM

WETWELL DIAMETER

INLET INVERT

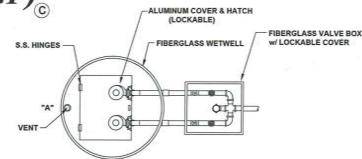
2nd PUMP ON

1st PUMP ON

PUMPS OFF

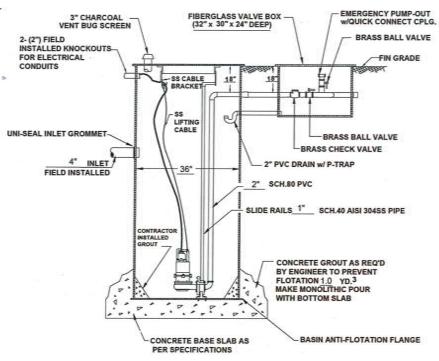
Installation shall be in strict accordance with the manufacturer's recomme shown on the drawing.

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 of complete system. Megger the motors. The pump motors shall be megged out prior to the start-up to ensure that the insulation of the pump motoricable is intact.
The pump controls and pumps shall be checked for

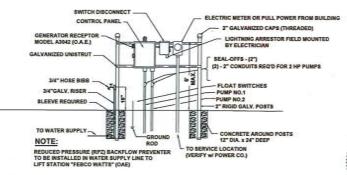


NOTE: PUMP CONTROL PANEL SHALL BE LOCATED 3 FEET FROM WETWELL PERIMETER

LIFT STATION PLAN



LIFT STATION SECTION



ELECTRICAL RISER FOR ILLUSTRATION ONLY * STATE OF

lice L. Brinkman III, PE P. Rep. No. 82306 No. 82306 P. Rep. No. 827-8M P. Rep. No. 827-8M rivoparette presençacen Robert L. Rogers, PE P. Rep. No. 1027 rivoparette presençacen

Ó ENGINEERIN Land Surveying orida 34471 • Ph. (352) Engineering & I. OGERS

DEVELOPMENT SITE
FOR
AUTOZONE
CITY OF APOPKA, FL

ofe Lift Station Deta

DATE 06-29-2018 SCALE AS SHOWN SHEET C6.1

* ELECTRICIAN NOTES:

- 1. DRAWING NOT TO SCALE
- * 2. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES

26 GPM

32 'TDH

HOMA

GRP12/1

3450

1.2

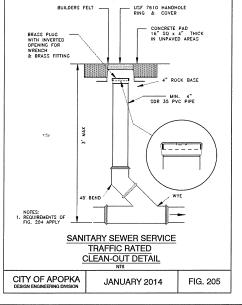
230/1

1.25"

4.41"

- * 3. ELECTRICIAN SHALL SEAL OFF CONDUIT RUNS
- * 4. ELECTRICIAN TO MOUNT LIGHTNING ARRESTOR AT SWITCH DISCONNECT
- * 5. CONTRACTOR SHALL VERIFY POWER SOURCE PRIOR TO ORDERING EQUIPMENT

RILEY & CO. / ECONO - GP 06-11-18



1. PIPE BEDOING: SELECT COMMON FILE COMPACTED TO 98X UNDER PAYEMENT OF THE MAXIMUM DENSITY AS PER AASIMO THIBD. 2. TRENCH BACKFILL COMMON THE COMPACTED TO SEX UNDER PAVEMENT OF THE MAXIMUM CENSITY AS TO ASSISTO THISS. AS TO AMOND THISM, SELECT COMMON FILL OR BEDDING BOCK IN ACCERBANCE WHISH TYPE A BEDDING AND TRUCKHING DELIA, MAY BE REQUIRED AS DEPICTION OF THE CITY.

(P) 15° MAY THE PER CHARTER LESS THAN 26°, ADD 26° THOT PRE EMMETTER 24° AND LANGUAR.

5. WATER SHALL HOT BE PLEWHITED IN THE FERCH DURING CONSTRUCTION.

. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW

 FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN CITY MONTHOF-WAY, SIMILL COMPLY WITH REQUIREMENTS OF REGIT—OF-WAY UTILIZATION REQUIREMENTS. 9. ALL UNPAYED DISTURBED AREAS SMALL BE SOSDED TO MATCH ADJACENT DOMINATE GRASS SPECIES.

TYPE "B" BEDDING AND OPEN-CUT DETAIL

JANUARY 2014

WATER

(

DO NOT DRINK NO BEBER

HEIGHT OF SIGN WILL DEPEND ON LOCATION AND SURROUNDING LANDSCAPE PLANT TYPES. IN ALL CASES, THE SIGN SHALL BE VISIBLE TO THE PUBLIC.

BACKGROUND SHALL BE WHITE, LETTERS AND FIGURES SHALL BE BLACK, PROHIBITIVE SYMBOL SYALL BE RED.

. POST SHALL BE U CHANNEL 12 FT. 2 LB. MOT ROLLED HIGH TENSILE RAIL OR BILLET STEEL, HOT DIP GALVANIZED PER ASTM A-123.

SIGNS SHALL BE PLACED BY THE CONTRACTOR IN ACCORDANCE WITH THE CITY APPROVED ENGINEERING PLANS AND/OR AS APPROVED BY PUBLIC SERVICES DEPARTMENT.

RECLAIMED WATER ADVISORY SIGN

JANUARY 2014

FIG. 100

FIG. 115

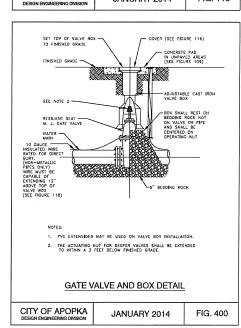
CITY OF APOPKA

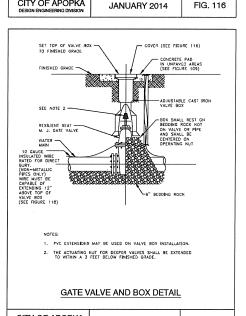
RECLAINED

WATER

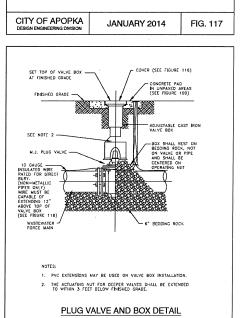
DO NOT SWIM NO NADAR

CITY OF APOPKA





DESIGN ENGINEERING DIVISION					
SET TOP OF VALVE BOX — AT FINISHED GRADE FINISHED GRADE	COVER (SEE FIGURE CONCRETE PA IN UNPAYED (SEE FIGURE	D AREAS			
SEE NOTE 2 M.J. PLUG VALVE 10 GAUGE INDULATED WIRE PAIGE FOR DINCT INCOM-WETALLID PRODUCT PERFECTION OF PERFECTION WASTEWNIER PROCE MAIN	ADJUSTABLE VALVE BOX SHALL BEODING BOX OF SHALL CENTER O OFTER INC. 1	REST ON K.K., NOT R PIPE BE M UT			
2. THE ACTUATING N TO WITHIN 3 FEE	MAY BE USED ON VALVE BOX INSTALLAT FUT FOR DEEPER WANTES SHALL BE EXTE TO BELOW TRIBHED GRADE.	NDED			
CITY OF APOPKA DESIGN ENGINEERING DIVISION	FIG. 400 A				



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OUTSIDE PAVEMENT

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

VALVE BOX

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

3. SEE ENCASEMENT DETAIL IF MINIMUM CLEARANCE CANNOT BE OBTAINED.

UTILITY CROSSING PIPE DEFLECTION DETAIL

CONSTRUCT UNIFORM PIPE DEFLECTION NOT TO EXCEED 75% OF MANUFACTURER RECOMMENDED MAXIMUM DEFLECTION PER PIPE JOINT

JANUARY 2014

FIG. 109

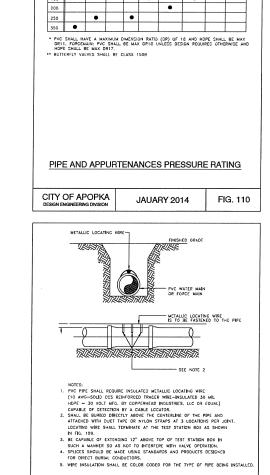
DISTANCE AS REQUIRED

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

CITY OF APOPKA

OBSTRUCTION PIPE SEE NOTE

NOTES:



5. WIRE INSULATION SHALL BE COLOR CODED FOR THE TYPE OF PIPE BEING INSTALLED

JANUARY 2014

FIG. 118

PVC PIPE LOCATING WIRE DETAIL

CITY OF APOPKA

MINIMUM PRESSURE RATING DI FITTINGS PIPE MATERIAL* GATE VALVE** FORCEMAIN* ≤24" >24" PVC DI HDPE ≤12" >12" PVC HDPE



ROGERS ENGINEERING
Civil Engineering & Land Surveying

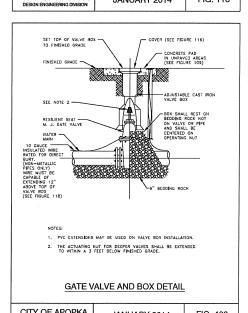
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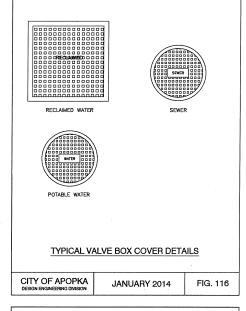
Willoce L. Brinkman III, PE R. Rey No. 82308 werhinman Nogers, PSM F. Rey No. 5274 rkroyers/broyers/g.com Robert L. Rogers, PE R. Rey No. 1027 rfrogers/pcoperang.com

PLAN - DEVELOPMENT SITE P FOR AUTOZONE CITY OF APOPKA, FL * Apopko Standard Det city

JOB No. 18_052128000000025 DATE 06-29-2018 SCALE AS SHOWN

SHEET C7.0

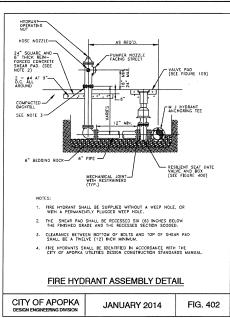


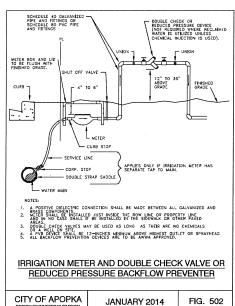


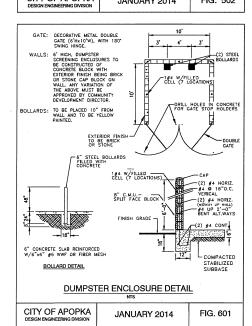
CITY OF APOPKA DESIGN ENGINEERING DIVISION	JUNE 2012	FIG. 104					
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	SEWER						
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RECLAIMED WATER	SEWER	SEWER					
Wile John Company							
POTABLE WATER							
TYPICAL VA	LVE BOX COVER DETA	JI S					

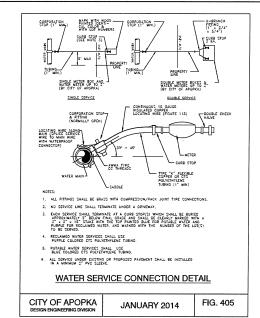
			IZONIAS	. & VLN	HEAL S	EPARAIL	ON REG	UREMEN	15	
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	FC4IZ.	VDAT,	HOSE.	V(AT.	HORR.	YERT,	HOUSE.	VERT.	HOMZ.	WRZ.
2_8A129 7_37496	-	-	2.	12"	ε,	12"	e.	6 ABOVE 12 FELOW	3"	4"
WATER	y	12"	-	<u> </u>	2.	12"	1	12"	-	-
FORCE MAR	6.	12"	3.	12"	-	-	-	-	-	-
SAMPLEY STW	ta e	L'ANDY	5'	12"	-	-	-	-	-	-
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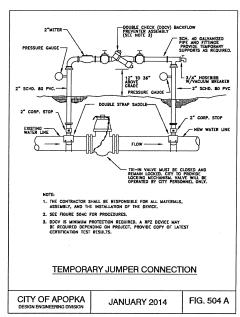


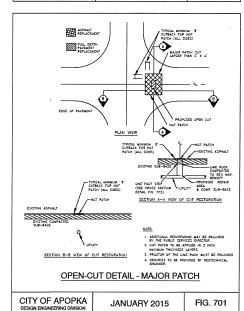


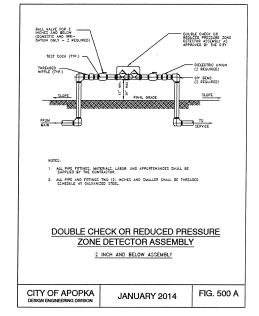


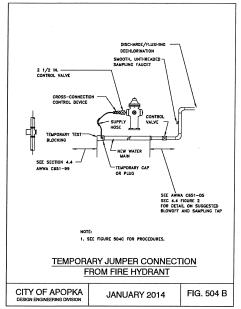


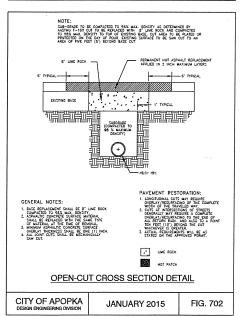


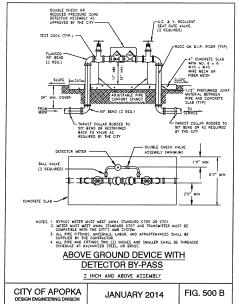


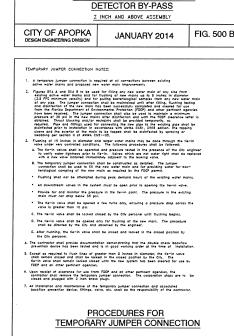












JANUARY 2014

FIG. 504 C

CITY OF APOPKA

TTCGERS ENGINEERING
Engineering & Land Surveying ROGERS I

Mollace L. Brinkman III, PE R. Rey, No. 82308 workmansforgereng.com Rodney K. Rogers, PSM R. Rey No. 5274 frogers@cogers@cogers.pc frogers@cogers.pc Robert L. Rogers, PE R. Rey No. 1027 frogers@cogers.pc

Bus.

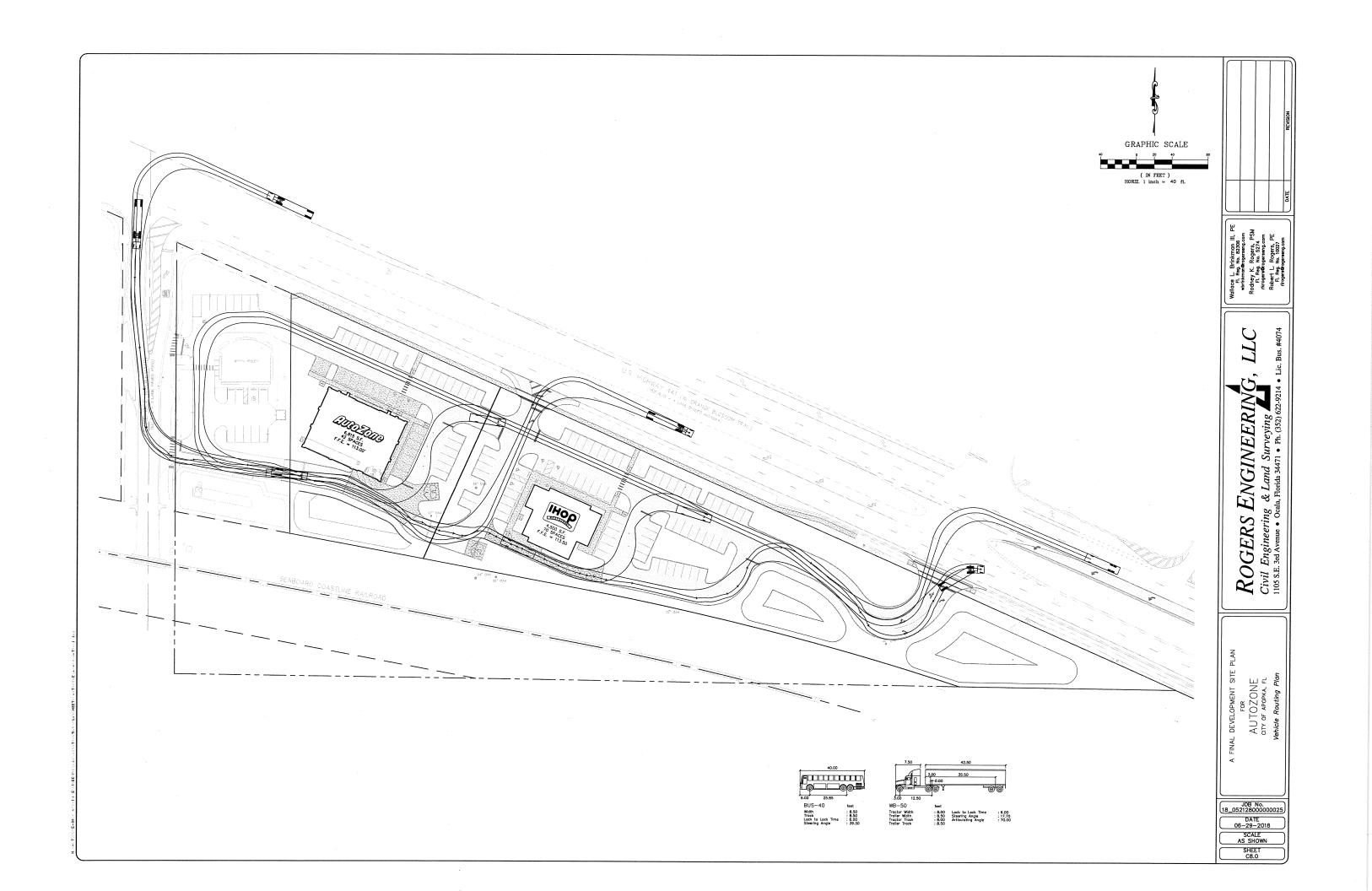
PLAN DEVELOPMENT SITE PEVELS
FOR
AUTOZONE
CITY OF APOPKA, FL

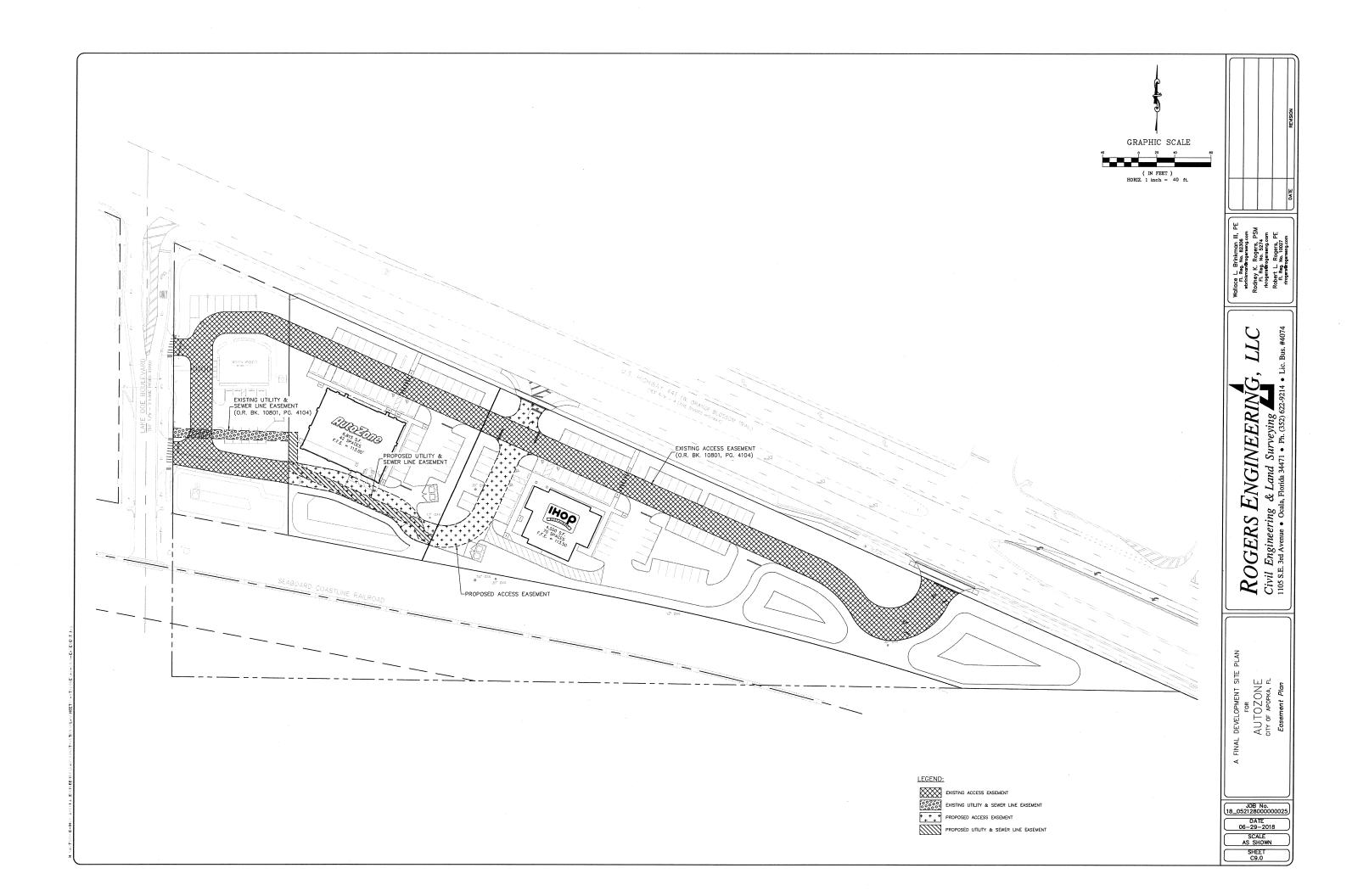
SCALE AS SHOWN SHEET C7.1

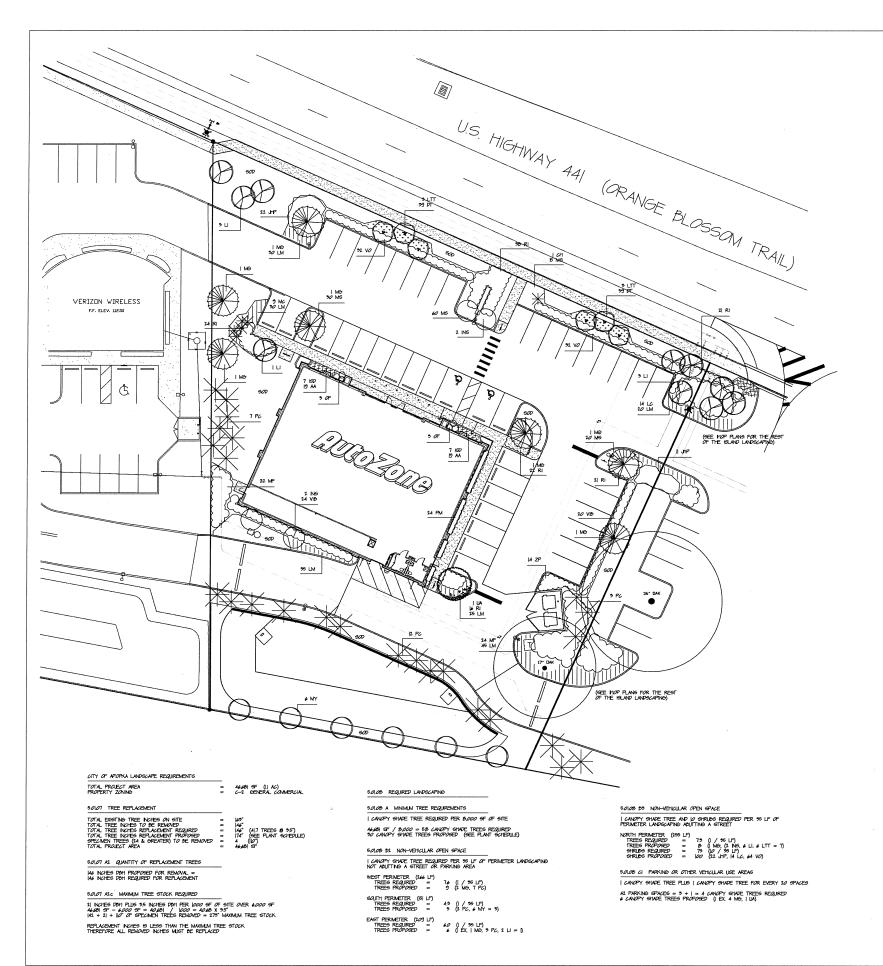
ž

City.

JOB No. 8_052128000000025 DATE 06-29-2018







LANDSCAPE MATERIAL LIST

SHADE & ORNAMENTAL TREES

U GML 14" - W, FILL GREAMEN
2 GML | B" - B", WELL-RANDED, GT W oc.
3 GML | B" - 14", FILL GT Y oc.
3 GML | B" - 14", FILL
4 GML | B" - 14", FILL
2 GML | B" - 14", FILL
5 GML | B" - 24", FILL
6 GML | B" - 5", FILL
6 GML | S" - 5", FILL
7 GML | S" - 5", FILL

SHRIBS

| GAL, MIN 7-9 PPS, FILL, SET 14" o.c., PAIBLE STAGGERED RAN | GAL, FILL, SET 14" o.c., PAIBLE STAGGERED RAN | GAL, MIN 7-9 PS, FILL | GAL, FILN, MIN 7-5 RINNERS

LANDSCAPE NOTES

! ALL MATERIAL SHALL BE FLORIDA #1 GRADE OR BETTER

2. ALL LANDSCAPED AREAS SHALL BE MULCHED WITH 3" - 4" OF PINE BARK MULCH

2. MILCH SHALL NOT BE INSTALLED ON TOP OF THE ROOT BALLS OF ANY SHADE OR ORNAMENTAL TREES

4. ALL MATERIAL INSTALLED SHALL MEET THE 10/6 GRADES AND STANDARDS FOR LANDSCAPE INSTALLATION

CERTIFICATION IS REQUIRED FROM THE NURSERY AND/OR THE LANDSCAPE CONTRACTOR THAT THE TREE ROOT DALL HAS BEEN SHAVED PER GRADES AND STANDARDS

4. ALL TREES MUST BE INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO ACCEPTANCE

7. ALL NEW TREES MUST BE GLYED OR STAKED AS DETALED

EXISTING TREES THAT ARE TO REMAIN MUST BE PROTECTED THROUGHOUT CONSTRUCTION

THE LANDSCAPE ARCHITECT SHALL REVIEW WITH THE CONTRACTOR ALL LANDSCAPING THAT IS TO BE DONE AND SHALL DENTIFY THE SCOPE OF WORK

D. PLACEMENT OF ALL LANDSCAPE MATERIAL MUST BE APPROVED BY THE LANDSCAPE ARCHITECT II. ALL LANDSCAPE MATERIAL MUST BE INSTALLED WITH NATIVE PEAT AND SLOW-RELEASE NITROSEN PERTLIZER

12. ALL MATERIAL SHALL BE GUARANTEED FOR 90 DAYS FROM THE DATE OF ACCEPTANCE

15. LANDSCAPE CONTRACTOR SHALL DE RESPONSIBLE FOR WATERING IN ALL TREES AND REMOVING AIR-POCKETS (A. DURNO THE ESTABLISHMENT PERIOD (PIRST 30 DAYS) THE LANDSCAPE CONTRACTOR SHALL APPLY
A MINIMUM OF 60 - 80 GPD TO ALL NEW TREES AS DIRECTED

5. LANDSCAPE CONTRACTOR MUST LOCATE ALL UNDERGROUND UTILITIES PRIOR TO ANY INSTALLATION ALL MATERIAL SHALL BE GURANTEED FOR 90 DAYS FROM THE DATE OF ACCEPTANCE

NO PLANTINGS OR OTHER ODSTRUCTIONS MAY BE WITHIN THE 2' VEHICULAR OVERHANG AREA

16. SOD SHALL BE INSTALLED IN ALL DISTURBED AREAS OUTSIDE OF THE PLANTING BEDS SOD AROUND THE BUILDING AND PARKING ISLANDS SHALL BE ST AUGUSTINE PALMETTO AS DIRECTED

20. SOD ALONG THE ROW, AND THE DRA SHALL DE ARGENTINE-BAHIA AS DIRECTED

21. ALL SOD SHULL BE INSTALLED WITH NO GAPS OR OVERLAPS AND SHULL BE SANDED AS NEEDED

SODDING INSIDE THE DRA SHALL BE SHOWN ON THE CALL PLANS AND IS NOT PART OF THESE QUANTIES

29. PLANTING SOL USED FOR THE BUILDING PLANTERS AND MOKFILLING OF THE LANDS/AFE ISLANDS, ETC.
MUST BE REVIEWED AND APPROXED BY THE LANDS/AFE ARCHITECT PRIOR TO ANY INSTALLATION.
ALL SOL SHALL BE WEDFAREE, CONTAIN NO STOKES, ROAKS, OR OTHER FOREIGN ORACITS, AND
SHALL DE A MIXTURE OF ACT. SHAD, SOTA LOWA, AND JOTA TOP-SOL.

14. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL PLANT MATERIAL, ROOTS, SOIL, AND OTHER LANDSCAPE ITEMS REMOVED FROM THIS SITE.

THE LANDSCAPE CONTRICTOR MUST PROVIDE AN AS-BULLT OF THE IRRIGATION SYSTEM TO THE LANDSCAPE ARCHITECT PRIOR TO REQUESTING ANY INSPECTIONS AND/OR APPROVALS

26. THE CANTRACTOR SHALL KEEP THE SITE CLEAN OF ALL DEBRIS, SEDIMENT, DRT, ETC. AND ENSURE THAT THAT DRAINNES SYSTEM REMAINS CLEAR AND THAT PEDESTRIAN WAYS ARE NOT BLOCKED.

27. DO NOT PLANT NEW TREES TOO PEEP, UNCOVER THE TRUNK FLARE AND SET THIS AT OR ADONE THE SURROUNDING SOIL LEVEL.

15. REMOVE ANY TREE WRAP FROM AROUND THE TRUNK OF NEW TREES TO BE INSTALLED 19. ALL NEW TREES AND SHRUDS MUST MEET THE "AMERICAN STANDARDS FOR NURSERY STOCK" (ANS) 140.1)

30. Landscape architect may require prunne of new trees after installation if it is peternined. That the trees need a single pominant leader established or cluster branches removed.

91. ALL PLANT MATERIAL MUST MEET ALL OF THE SIZE SPECIFICATIONS, NOT JUST THE CONTAINER SIZE 92. HAVING THE LANDSCAPE ARCHITECT APPROVAL OF PLANT PLACMENT IS ESSENTIAL FOR ACCEPTANCE

39. ALL SIZE SPECEVATIONS SHOWN ON THE MATERIAL LIST ARE FOR THE HEIGHT OF THE MATERIAL LINESS OTHERWISE NOTED. MEASUREMENT SHALL BE AS PER THE CURRENT INDUSTRY GRADES AND STANDARDS

34. LANDSCAPE INSTALLATION MUST BE COORDINATED WITH THE INSTALLATION TO BE DONE ON THE ADJACENT HOP PROJECT

55. WORK MUST PROTECT THE EXISTING LANDSCAPE PLANTINGS ON THE ADJACENT VERIZON PROPERTY

%. ALL LANDSCAPE PLANTS ARE PLORIDA-FRENDLY FOR CENTRAL PLORIDA PLANT HARDNESS ZONE

97. ALL LANDSCAPING MUST BE A MINIMUM OF 90" (2.5) FROM THE DULDING FOUNDATION



RICHARD A KESSELRING JR., PLA, ASLA LANDSCAPE ARCHITECT . STATE OF FLORIDA #858

 $\underline{\mathscr{Q}}$ 5 DATE: DRAW MEW A 10 RA - || → DRAIM SCALE

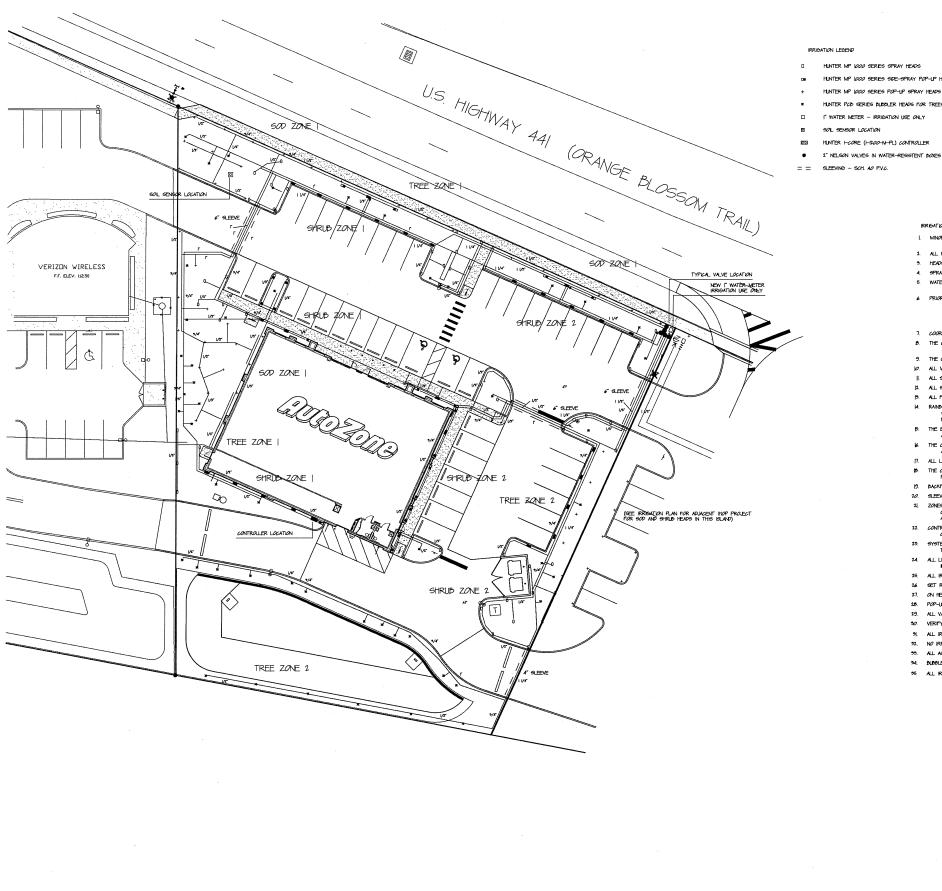
ENVIRONMENTAL DESIGN
ANDY KESSELRING, LANDSCAPE ARCHITECT
1920 SE, BIN STREET
CCALA, FLORING 34478 (322) 632–6899
LANDSCAPE ARCHITECHES SIT PANNING
GALF COURSE DESIGN COMMENCIAL—RESIGNINA DESIGN



PLAN LANDSCAPE I

OPKA

SHEET LOOL of ___



TREE ZONE I 180 GPM BUBBLER (5 GPM) LOW-VOLUME TREES ONLY TREE ZONE 1 290 GPM NIDNER (5 6PM) LOW VOLUME TREES ONLY HUNTER MP 1000 SERES POP-UP SPRAY HEADS FOR SOD HUNTER PUD SERIES BUDDLER HEADS FOR TREES SHRUD ZONE I SPRAY (4 GPM) LOW VOLUME SHRUBS ONLY SHRUB ZONE 2 232 GPM SPRAY (A GPM) SHRUBS ONLY LOW-VOLUME SOD ZONE I 204 GPM

RRIGATION NOTES

I. MINOR CHANGES MAY BE MADE IN THIS LAYOUT WITH APPROVAL BY THE LANDSCAPE ARCHITECT AND SHALL BE DOCUMENTED ON RECORD PRAVINGS PROVIDED TO CITY PRIOR TO CO.

2. ALL HEAD LOCATIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO ANY INSTALLATION

9. HEADS SHALL BE 1/4, 1/2, OR FILL CIRCLE AS EACH LOCATION REQUIRES

SPRAYS PATTERNS SHALL BE SET TO MINIMIZE SPRAY ONTO ADJACENT WALKS, DRIVES, AND BUILDINGS

water scarce for system shall be a new I water meter installed in the general area shown meter shall be for iribation use oally and permitted as such

A PRIOR TO ANY INSTALLATION, THE IRRIGATION CONTRACTOR SHALL REVIEW THE PLANS AND THE SHE AND PROVIDE WRITTEN VERFICATION TO THE LANDSCAPE ARCHITECT THAT THE EXISTING COMPORTS ARE SHITCHLY FOR THE SYSTEM AS PESIGNED. ANY MODIFICATIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT FRUIR TO ANY INSTALLATION.

7. COORDINATE WITH THE CIVIL PLANS FOR THE WATER METER AND VALVE INSTALLATION

THE CONTROLLER SHALL BE LOCATED IN THE GENERAL AREA SHOWN AND SHALL BE MOUNTED AS APPROVED BY THE LANDSCAPE ARCHITECT IN A LOCKABLE CASE.

9. THE OWNER WILL PROVIDE AN ELECTRICAL OUTLET IN THE CONTROLLER AREA

D. ALL VALVES SHALL BE INSTALLED IN WATER-RESISTENT DOXES

II. ALL SLEEVING MUST BE INSTALLED PRIOR TO THE LIMEROCKING OF THE PAVED AREAS

12. ALL SLEEVING SHALL DE SCH. 40 P.V.C. AND INSTALLED A MINIMUM OF 18" DEEP

D. ALL FEEDER LINES SHALL BE INSTALLED A MINMAN OF IZ" DEEP

N. RAINDRO RAINCHEA'S DEVICE SHALL BE INSTALLED TO MININIZE RRIGATION DIRING SHE'S SHALL (RSD SERIES). IN ADDITION, IN A ACAIMAT D'E SENEOR WITH SAX CONTROL MONITOR MUST BE INSTALLED AS LOCATED BY THE LANGSCAPE ARCHITECT FOR PROPER IRRIGATION AMOUNTS.

15. THE ENTIRE SYSTEM MUST BE OPERATIONAL, REVIEWED, AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO FINAL ACCEPTANCE

IN THE CONTRICTOR SHALL RETURN WITHIN THE FIRST SO DAYS TO AQUIST THE SYSTEM AS NECESSARY AND DIRECTED BY THE LANDSCAPE ARCHITECT

17. ALL LABOR AND MATERIALS SHALL BE GUARANTEED FOR I YEAR FOR FINAL ACCEPTANCE

IS. THE CONTRACTOR MUST PROVIDE AN AS-BULT DRAWING TO THE LANDSCAPE ARCHITECT PRIOR TO FINAL ACCEPTANCE.

13. DACKFLOW PREVENTION DEVICE SHALL BE INSTALLED AT THE METER LOCATION PER APPLICABLE CODES

20. SLEEVES MUST BE INSTALLED IN ALL AREAS WHERE RRIGATION PPING IS INSTALLED UNDER PAVEMENT

21 ZORES ARE DESIGNED TO FINATION AT % SON AND 40 PSY AT THE VALVE LOCATIONS. CONTRACTOR SHALL BE RESTORAGELE FOR TESTING AT ALL HEADS TO NAURE PROPER PRESIGNE AND WATER QUANTY FOR THE TESTING CONTRACT.

22. CANTRACTOR SHALL CONSILT WITH BOTH OWNER AND THE LANDSCAPE ARCHITECT FOR THE TIMING OF THE SYSTEM, BASED ON CURRENT WATER RESTRICTIONS

23. SYSTEM DOES NOT PROVIDE LOCAL COMPAGE OF THE ENTIRE PROJECT SITE. CONTRACTOR MIST ADJIST HEADS TO COMER NEW PLANT INSTALLATION AND SOO AREAS AS DIRECTED BY THE LANDSCAPE ARCHITECT.

24. All line locations must be adjusted on-site to insure that they do not impact the major root systems of the trees to be preserved.

25. ALL IRRIGATION HEADS SHULL BE LOW-VOLUMN, MIRCO-IRRIGATION TO MINIMIZE WATER CONSUMPTION 24 SET RUN TIMES FOR THE SYSTEM PER RECOMMENDATIONS BY FAS @ EDIS/FASUFLEDU/AE220

27. ON HEADS LOCATED BELOW THE VALVE LOCATIONS, INSURE CHECK VALVES ARE INSTALLED AT THE HEAD

15. POP-UP HEIGHTS WITHIN SOD AREAS SHALL DE SET AT 6"

19. ALL VALVES SHALL HAVE A FACTORY-INSTALLED FILTER SENTRY AND VERIFED BY CONTRACTOR

90. VERFY CONTROLLER SET-UP WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION

%. ALL IRRIGATION INSTALLATION SHALL MEET 2015 GRADES AND STANDARDS

12. NO IRRIGATION HEADS SHALL BE INSTALLED ON RISERS PER CITY CODE REQUIREMENTS 99. ALL AS-BUILTS, VERFICATIONS, ETC. MUST BE SUBMITTED PRIOR TO FINAL INSPECTION AND ACCEPTANCE

24. SUBSLERS AT ALL TREES AND PALMS SHALL BE STAKED AT THEIR PROPER LOCATIONS

55. ALL IRRIGATION DISTRIBUTION EQUIPMENT SHALL BE A MINIMUM OF 14" FROM VERTICAL STRUCTURES



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E ARCHITECT P.O. BOX 5121 (352) 622-8899 IE PLANNING, -RESIDENTIAL DESIGN ENVIRONMENTAL DESIGN
ANDY KESSELRING, LANDSCAPE A
ANDY KESSELRING, LANDSCAPE A
COCALA, FLORING 34478
LANDSCAPE ARCHITECTHE, SITE P
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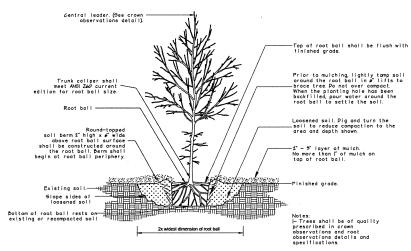


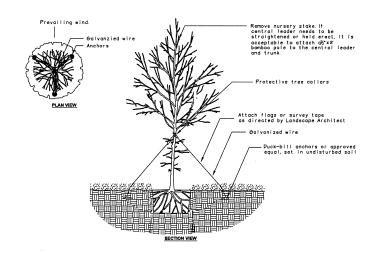
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IRRIGATION PLAN

SHEET L.001 of ____

RICHARD A KESSELRING JR., PLA, ASLA LANDSCAPE ARCHITECT , STATE OF FLORIDA #858



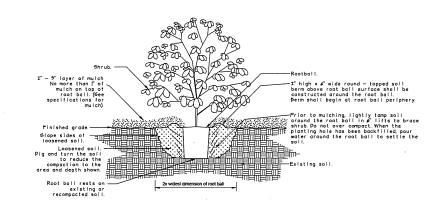


manufacturer's specifications and recommendations. (See Irrigation legend for controller make and model number).

-1. PVC electrical conduit for irrigation valves, master valve, and flow sensor wires. Optional 3' knockout if more wires are needed. Secure conduit to wall using stainless steel clamp.

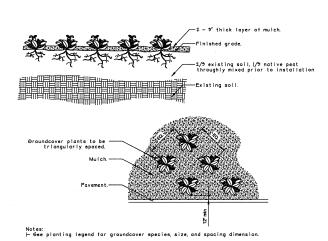
- PVC electrical conduit for electrical power pe local and national electrical codes. -I' PVG electrical conduit for ET sensor. (optional).

"¾" knockout for earth ground wire.



SHRUB INSTALLATION

TREE INSTALLATION

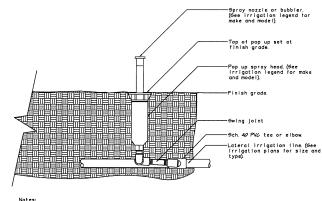


nished grade.

WALL MOUNTED CONTROLLER

3'-5/2"

TREE STAKING - TREES < 2" CALIPER



Notes:

- F pop ups shall be used in turl areas.

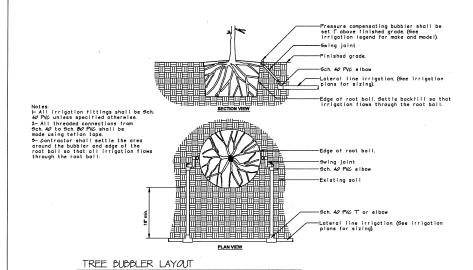
- Contractor shall settle sail around the pop up after installation.

- Contractor yellowed shall have check valves.

- All pop up spray heads shall have check valves.

- All Sch. 40 PVC to Sch. 80 PVC connections shall be made using teflon tape.

GROUNDCOVER INSTALLATION



POP UP-SPRAY HEAD

IRRIGATION 0 \approx ACT LANDSCAPE

RICHARD A KESSELRING JR., PLA, ASLA LANDSCAPE ARCHITECT , STATE OF FLORIDA #858

RAK П SCALE CAPE ARCHITECT
P.O. BOX 5121
(352) 622-8899
SIE PLANNING,
CAL-RESIDENTIAL DESIGN ENVIRONMENTAL DESIGN
ANDY KESSERRING, L'ANDSCAPE AI
1920 SE, BHI STREET
01-4A, FLORING 1478 (25
LANDSCAPE ARCHITECTURE, SITE PI
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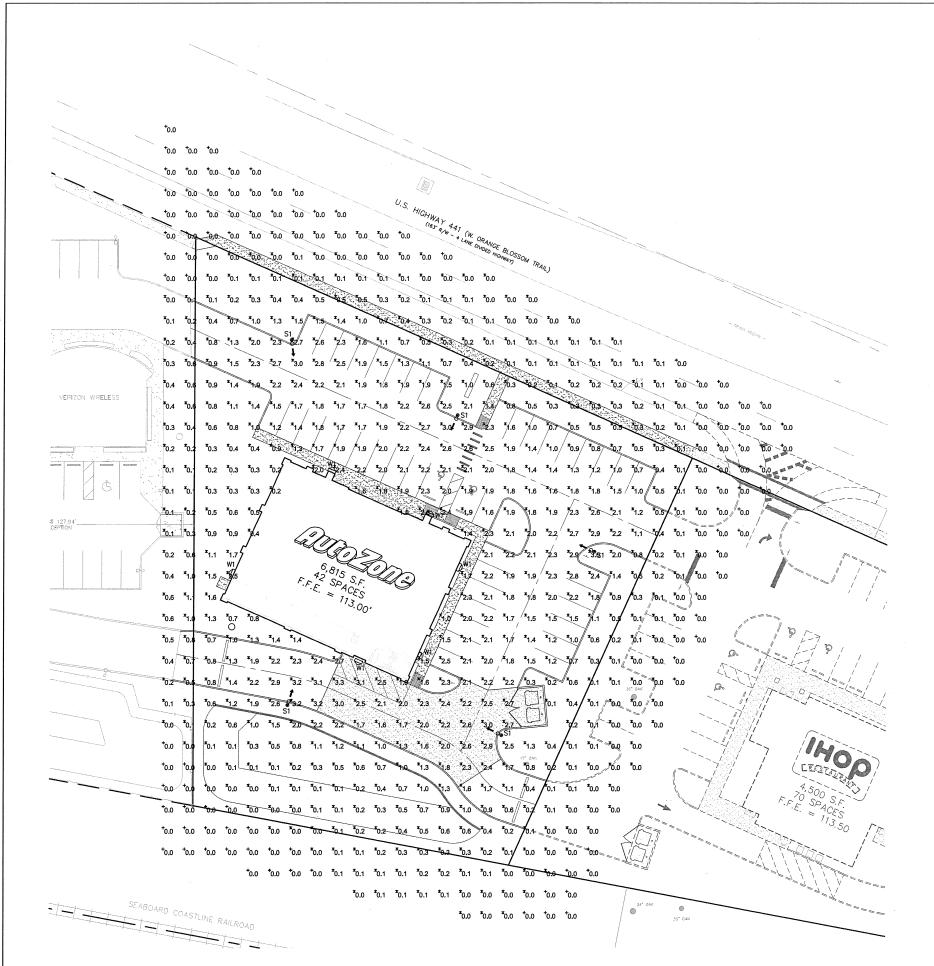
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SHEET L*003* of ___



LUM	IINAIRE S	CHEDULE				
TYP	SYMBOL	DESCRIPTION	LAMP	LUMENS	LLF	QTY
S1	e0	IANP — BVF2401 (PO46ID4) — LED POST ARM — PA1613 — BRONZE FINISH 5° BOLT DOWN ROUND ALLIMINUM SMOOTH POLE — BUSS20.25 — 20° TALL — BRONZE FINISH ES FULL CUTOFF DISTRIBUTION MOUNTED 0' DOWN POSITION MOUNTED HEIGHT = 23°—0°	LED - 117 WATTS	ABSOLUTE	1.00	5
W1	₽	LITHONIA - DSW1 LED 10C IESNA FULL CUTOFF DISTRIBUTION MOUNTED 0' DOWN POSITION MOUNTED HEIGHT = 12'-0"	LED - 40 WATTS	ABSOLUTE	0.95	6

STATISTICS						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Mlr
Parking Lot	*	1.9 fc	3.3 fc	0.2 fc	16.5:1	9.5:1
Overall Site	*	0,9 fc	3.3 fc	0.0 fc	N/A	N/A

3. NO FLOODLIGHTS ARE PROPOSED.

AutoZone Store Development

APOPKA, FL 32726 PHOTOMETRIC PLAN

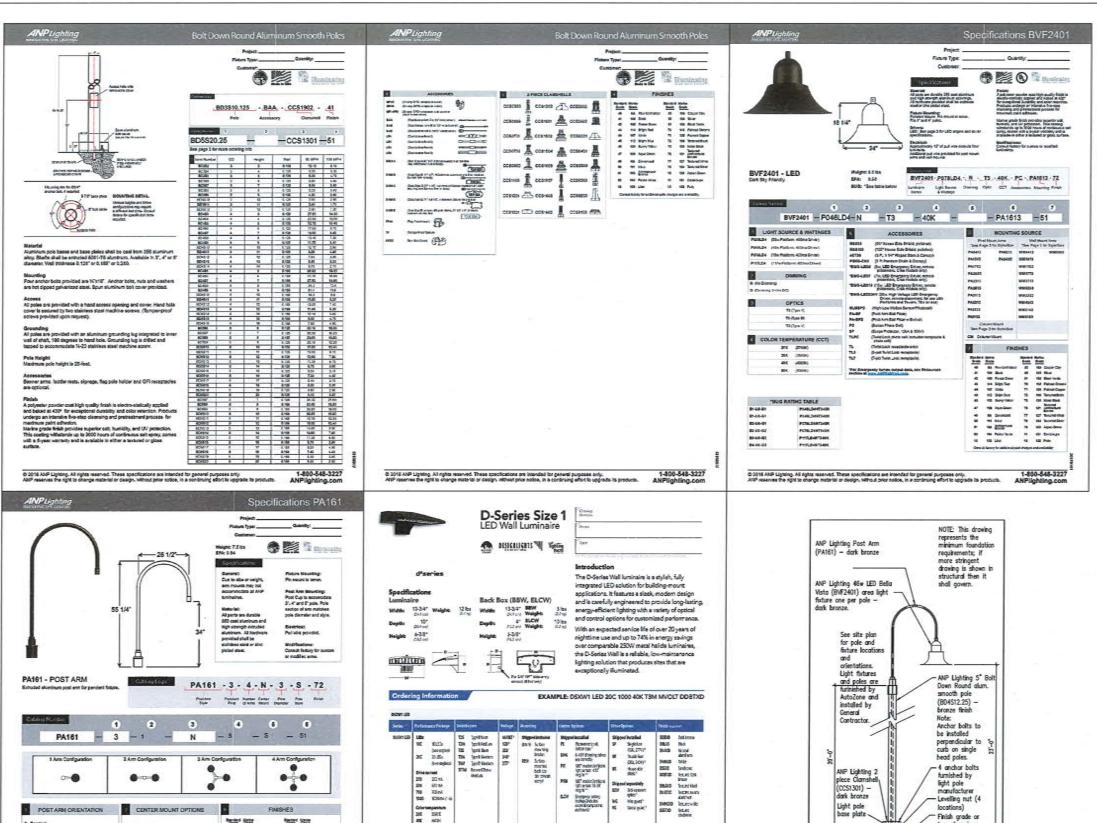
SITE

SCALE: 1" = 20' REVISIONS

ARCHITECT: DRAFTSMAN: CHECKED BY:

06/06/18 PROTOTYPE SIZE 65W2-L

LP.1



Glorampantum 30E 29EE 40E 4E3E 30E 20EE

METER

1. METER STATE OF THE PROPERTY OF THE P

pour any series consequent angle of species or present any respect.

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LITHORILA Contident the * Court Copy 2000 * Prom 5000 * Sp. 75076129 * Limitation 600 Suns Study (day to 18 tyle spread

Accessories

POST ARM CRENTATION

NUMBER OF ARMS

1-One-Arm Configuration

1-Tuo Arm Configuration

3 - Ponderii

CENTER MOUNT OPTIONS

POLE DIAMETER

2016 ANP Lighting, All dights reserved. These specifications are intended for general purposes only.

1.930-548-3227

ANP reserves the dight to change material or design, without prior solos, it is containing effort is upgrade its products.

ANP lighting, com

N - No Canar Nours

\$-\$ inch

4-4 inch

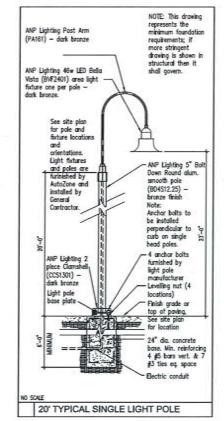
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Development AutoZone Store 3666 US HIGHWAY 441 or.

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DETAIL:

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Zone Inc.

Zone Inc.

3, Tennessee 38103
1) 495-8709 Fax: (901) 495-8969
ing & Contractor Information Contact:
inde Plan Room Tel: (615) 884-1017

PHOTOMETRIC SCALE: 1" = 20" REVISIONS

LP.2

65W2-L

5.

6.

ARCHITECT:

DRAFTSMAN:

CHECKED BY: 06/06/18

This instrument was prepared by and should be returned to:
William P. Weatherford, Jr.
Marlowe & Weatherford, P.A.
1150 Louisiana Avenue, Suite 4
Winter Park, Florida 32789
(407) 629-5008

DOC# 20140454685 B: 10801 P: 4104
09/08/2014 02:58:37 PM Page 1 of 21
Rec Fee: \$180.00
Deed Doc Tax: \$0.70
DOR Admin Fee: \$0.00
Intangible Tax: \$0.00
Mortgage Stamp: \$0.00
Martha O. Haynie, Comptroller
Orange County, FL
MB - Ret To: WOODS & WOODS PA

ACCESS & UTILITY EASEMENT AGREEMENT

WITNESSETH:

WHEREAS, simultaneous with the execution of this Agreement, Rock RDP 1 has acquired from Calmil a fee simple ownership interest in certain real property, located in Orange County, Florida, more particularly described in Exhibit "A", attached hereto and incorporated herein (the "Rock RDP 1 Property").

WHEREAS, Calmil has retained ownership of certain real property, located in Orange County, Florida, more particularly described on Exhibit "B" attached hereto and by this reference incorporated herein (the "Calmil Property") which Calmil Property is adjacent to the Rock RDP 1 Property; and

WHEREAS, Calmil is conveying the Rock RDP 1 Property to Rock RDP 1 on the condition that Rock RDP 1 grant to Calmil to the easements granted in this Agreement; and

WHEREAS, Calmil desires an easement over and across a portion of the Rock RDP 1 Property to the benefit of the Calmil Property, for the purpose of a non-exclusive easement for vehicular and pedestrian access, ingress, egress but not parking, subject to the terms and provisions hereinafter set forth; and

WHEREAS, Calmil desires an easement over and across a portion of the Rock RDP 1 Property the benefit of Calmil Property, for the purpose of installing and maintaining utility lines subject to the terms and provisions hereinafter set forth.

NOW THEREFORE, in consideration of the premises hereof and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Rock RDP 1 and Calmil hereby agree as follows:

1. Grant of Mutual Access, Ingress and Egress Easements.

a. Rock RDP 1 hereby grants and conveys to Calmil, for the use and

benefit of Calmil and its successors, assigns, purchasers, tenants, employees, agents, invitees and licensees and guests, a non-exclusive easement across any driveways, roads, access ways, sidewalks, walkways, exits and entrances which may, from time to time, be located on the Rock RDP 1 Property solely for purposes of vehicular and pedestrian ingress and egress to and from the Calmil Property to Lake Doe Boulevard, but not for parking, as generally depicted on Exhibit E, attached hereto. The depiction of particular driveways on Exhibit "E" shall not be construed as an obligation to establish or maintain those particular driveways.

- b. Calmil hereby grants and conveys to Rock RDP 1, for the use and benefit of Rock RDP 1 and its successors, assigns, purchasers, tenants, employees, agents, invitees and licensees and guests, a non-exclusive easement across any driveways, roads, access ways, sidewalks, walkways, exits and entrances which may, from time to time, be located on the Calmil Property solely for purposes of vehicular and pedestrian ingress and egress to and from the Rock RDP 1 Property to United States Highway 441, but not for parking, as generally depicted on Exhibit E, attached hereto. The depiction of particular driveways on Exhibit "E" shall not be construed as an obligation to establish or maintain those particular driveways.
- c. Rock RDP 1 shall, at its sole cost and expense, design and construct such driveways, access ways, exits and entrances as may be reasonably necessary to provide a point of access from the Rock RDP 1 Property to Calmil Property (the "Rock RDP 1 Driveway Construction Obligation"). The driveways, access ways, exits and entrances designed and constructed by Rock RDP 1 on the Rock RDP 1 Property shall comply with the requirements of the City of Apopka. Rock RDP 1 shall perform the Rock RDP 1 Driveway Construction Obligation on or before the issuance of a certificate of occupancy for any occupant of any portion of the Rock RDP 1 Property but no later than December 31, 2015.
- d. Calmil or its successor shall, at its sole cost and expense, design and construct such driveways, access ways, exits and entrances as may be reasonably necessary to provide a point of access from the Calmil Property to Rock RDP 1 Property. The driveways, access ways, exits and entrances designed and constructed by Calmil on the Calmil Property shall comply with the requirements of the City of Apopka. Calmil shall complete the construction of such driveways, access ways, exits and entrances on or before the issuance of a certificate of occupancy for any occupant of any portion of the Calmil Property.
- e. Notwithstanding the easements granted hereunder, Rock RDP 1 shall not permit construction vehicles seeking access to the Rock RDP 1 Property to obtain ingress and egress to the Rock RDP 1 Property across Calmil Property. Likewise, Calmil shall not permit construction vehicles seeking access to Calmil Property to obtain ingress and egress to Calmil Property across the Rock RDP 1 Property.
- f. Calmil reserves the right to establish, from time to time, reasonable rules and regulations for the use of the driveways, access ways, sidewalks, walkways, exits and entrances of the Calmil Property. Likewise, Rock RDP 1 reserves the right to establish, from time to time, reasonable rules and regulations for the use of the driveways, access ways, sidewalks, walkways, exits and entrances of the Rock RDP 1 Property.
- g. Calmil shall not establish or erect signs directing traffic from Calmil Property to the driveways, access ways, sidewalks, walkways, exits and entrances of the

Rock RDP 11 Property. Likewise, Rock RDP 1 shall not establish or erect signs directing traffic from the Rock RDP 1Property to the driveways, access ways, sidewalks, walkways, exits and entrances of Calmil Property.

- h. Each party reserves the right, subject to the approval of the other party, which approval shall not be unreasonably withheld, to record an instrument containing the legal description and a sketch of such legal description of the driveways, access ways, sidewalks, walkways, exits and entrances of its Property. Upon the recordation of such instrument the rights of ingress and egress described in this instrument shall apply solely to the real property included in such description.
- Calmil, for the use and benefit of Calmil Property, the owners of any portion thereof or interest therein, their successors and assigns, a non-exclusive easement for utility purposes over, under and across the property legally described in **Exhibit "C"** and as depicted in **Exhibit "C"** and as depicted in **Exhibit "C"**, both attached hereto and incorporated herein a. ("Utility Easement Area"). Utility installations within the Utility Easement Area may, without limitation, include water (potable, fire protection and irrigation water), telephone, cable, gas and electric power. Calmil may from time to time, at its sole cost and expense, install, maintain and repair, within the Utility Easement Area underground utility lines to provide services to Calmil Property.

Prior to beginning any Utility installations in the Utility Easement Area, Calmil will provide written notice to Rock RDP 1 not later than twenty (20) days from the date Calmil anticipates commencing its' work.

Notwithstanding the foregoing, Calmil hereby agrees that during the any installations within the Utility Easement Area and at all times thereafter for the purposes of maintenance or repair, it shall make every reasonable effort not to impede the driveways, access ways, sidewalks, walkways, exits and entrances of the Rock RDP 1 Property or in any way restrict the access to and from the Rock RDP 1 Property of any automobile, pedestrian, employee or agent of Rock RDP 1.

3. Grant of Sewer Line Easement. Rock RDP 1 hereby grants and conveys to Calmil, for the use and benefit of Calmil Property, the owners of any portion thereof or interest therein, their successors and assigns, a non-exclusive easement for the for the conduct and passage of waste water through certain sanitary sewer mains, pipes, conduits, valves, meters and related appurtenances located within the property legally described in Exhibit "D" and as depicted in Exhibit "D-1", both attached hereto and incorporated herein ("Sewer Line Easement Area") Rock RDP 1 shall, at its sole cost and expense, design and construct the following improvements to be located in the Sewer Line Easement Area:

Construction of a 4" PVC sanitary sewer force main from the common Calmil/Rock RDP 1 property line, westerly across the Rock RDP 1 parcel, with connection to the City's force main in Lake Doe Boulevard

which improvements shall comply with the requirements of the City of Apopka (the "Sewer Line Construction Obligation"). Rock RDP 1 shall perform the Sewer Line Construction Obligation on or before the issuance of a certificate of occupancy for any occupant of any

portion of the Rock RDP 1 Property but no later than December 31, 2015. Calmil may, from time to time and at its sole cost and expense, connect to the lines and facilities located within the Sewer Line Easement Area to provide services to Calmil Property.

Notwithstanding the foregoing, Calmil hereby agrees that during the construction of the Sewer Line Construction Obligation improvements and at all times thereafter for the purposes of maintenance or repair, it shall make every reasonable effort to not impede the driveways, access ways, sidewalks, walkways, exits and entrances of the Rock RDP 1 Property or in any way restrict the access of any automobile, pedestrian, employee or agent of Rock RDP 1 to the Rock RDP 1 Property.

- 4. <u>Duration</u>. The easements hereby created, granted and conveyed shall remain in effect in perpetuity, subject to the right of Rock RDP 1 to relocate the Utility Easement Area and Sewer Line Easement Area as more particularly set forth in Section 5.
- Relocation of the Utility Easement Area and Sewer Line Easement. Rock RDP 1 reserves the right to relocate all or any part of Utility Easement Area or Sewer Line Easement Area, and the utility lines and facilities installed therein, lying within the Rock RDP 1 Property to one or more other easement areas constituting a part of the Rock RDP 1 Property, provided that Rock RDP 1 pays all costs of relocation, at its sole cost and expense, the reasonable needs of Calmil continue to be met in a reasonable manner during relocation, and Rock RDP 1 executes and delivers to Calmil an amendment to this Agreement, or a separate instrument in form and content acceptable to Rock RDP 1 and Calmil, in which Calmil is granted an easement in and to the new easement area(s), and in which the easement granted herein affecting the relocated easement area(s) will be terminated. Rock RDP 1 shall provide not less than sixty (60) days written notice to Calmil that Rock RDP 1 intends to relocate such easement areas and shall provide plans and specification providing reasonable information about its plans for such relocation (hereafter the "Relocation Notice"). Provided that Calmil does not object within twenty (20) days from the date of the Relocation Notice, then Rock RDP 1 may proceed with such relocation in accordance with such plans. Notwithstanding the forgoing, without the express written consent of Calmil, Rock RDP 1 may not commence its' activities to relocate the Utility Easement Area or Sewer Line Easement area until the sixtieth (60th) day from the date of the Relocation Notice.
- Area. Calmil, at its sole cost and expense, shall be responsible for the repair and maintenance of the utility lines and facilities located within the Utility Easement Area and Sewer Line Easement Area which lines and facilities exclusively serve the Calmil Property. Rock RDP 1, at its cost and expense, shall be responsible for the repair and maintenance of the utility lines and facilities located within the Utility Easement Area and Sewer Line Easement Area which lines and facilities serve the Rock RDP 1 Property.
- 7. Remedies. If Rock RDP 1 fails to maintain and repair the utility lines and facilities serving both the Rock RDP 1 Property and the Calmil Property and or driveways, roads, access ways, sidewalks, walkways, exits and entrances serving the Calmil Property so that they shall at all times be in good and operable condition and in compliance with all applicable governmental codes and regulations or, if Rock RDP 1 shall fail to perform the Rock RDP 1 Driveway Construction Obligation or the Sewer Line Construction Obligation within the time specified herein, Calmil shall have the right after twenty (20) days written

notice to Rock RDP 1 or, in case of an emergency, at any time, to undertake reasonable construction, repairs and maintenance and Rock RDP 1 shall reimburse Calmil for all reasonable costs and expenses related to Calmil's construction, maintenance and repair activities within thirty (30) days of receipt of an invoice for such costs. In the event Rock RDP 1 does not pay when due Calmil's costs and expenses, Calmil shall be entitled to execute and record among the Public Records of Orange County, Florida a claim of lien encumbering Rock RDP 1 Property. The claim of lien shall be in an amount equal to the reimbursement due to Calmil, plus interest at the highest rate allowed by law from the date said reimbursement was due, together with all costs and reasonable attorneys' fees (at all trial and appellate levels) incurred in connection therewith. Calmil shall be entitled to pursue any or all available remedies to enforce the lien and collect the amounts due, including without limitation foreclosure of the lien or an action to collect the indebtedness.

If Calmil fails to maintain and repair any driveways, roads, access ways, sidewalks, walkways, exits and entrances serving the Rock RDP 1 Property so that they shall at all times be in good and operable condition and in compliance with all applicable governmental codes and regulations or, if Calmil shall fail to perform its' obligations related to the Utility Easement Area within the time specified herein, Rock RDP 1 shall have the right after twenty (20) days written notice to Calmil or, in case of an emergency, at any time, to undertake reasonable construction, repairs and maintenance and Calmil shall reimburse Rock RDP 1 for all reasonable costs and expenses related to Rock RDP 1's construction, maintenance and repair activities within thirty (30) days of receipt of an invoice for such costs. In the event Calmil does not pay when due any Rock RDP 1's costs and expenses, Rock RDP 1 shall be entitled to execute and record among the Public Records of Orange County, Florida a claim of lien encumbering the Calmil Property. The claim of lien shall be in an amount equal to the reimbursement due to Rock RDP 1, plus interest at the highest rate allowed by law from the date said reimbursement was due, together with all costs and reasonable attorneys' fees (at all trial and appellate levels) incurred in connection therewith. Rock RDP 1 shall be entitled to pursue any or all available remedies to enforce the lien and collect the amounts due, including without limitation foreclosure of the lien or an action to collect the indebtedness.

- 8. Estoppel Certificates. In the event that Calmil or Rock RDP 1, or their respective successors or assigns, shall desire to inquire as to the status of any party's performance of or compliance of the obligations imposed in this Agreement, the inquiring party shall be entitled to demand and receive from the other party within ten (10) days prior written notice, an estoppel certificate which states whether any party hereto is in default of its obligations hereunder and whether, when, and to what extent any monies may be due to from one party to another hereunder. Any such written demand must be forwarded pursuant to the notice provision hereunder.
- 9. <u>Incidental Rights</u>. Except as otherwise specifically provided or limited herein, the easements, rights and obligations hereby created, granted and conveyed include all incidental rights reasonably necessary for the use and enjoyment of the easements granted herein and for their intended purposes.
- 10. No Common Ownership. Notwithstanding anything herein set forth, the parties hereto expressly negate any construction of this Agreement which implies the joint or common ownership of any part of Calmil Property or the Rock RDP 1 Property, or which implies the creation, establishment or existence of any partnership, joint venture or other such scheme of common ownership or common operation of the respective properties.

- Indemnification, Rock RDP 1, its successors and assigns, shall indemnify and hold Calmil, its successors and assigns, harmless from and against any and all loss, cause, damage, expense, injury, claim and liability (including reasonable attorney's fees and paraprofessional fees at any pre-trial, trial or appellant proceedings) which Calmil, its successors and assigns, may suffer or incur as the result of, arising out of, or attributable to, use of the Calmil Property by Rock RDP 1, its successors and assigns, or the exercise of any rights granted to Rock RDP 1 herein, except to the extent resulting from the negligent, intentional or willful acts or omissions of the party being indemnified, its contractors, employees, agents or others acting by, through, under or on behalf of such party. Calmil, its successors and assigns, shall indemnify and hold Rock RDP 1, its successors and assigns, harmless from and against any and all loss, cause, damage, expense, injury, claim and liability (including reasonable attorney's fees and paraprofessional fees at any pre-trial, trial or appellant proceedings) which Rock RDP 1, its successors and assigns, may suffer or incur as the result of, or arising out of, or attributable to, use of the Rock RDP 1 Property by Calmil, its successors and assigns, or the exercise of any rights granted to Calmil herein, except to the extent resulting from the negligent, intentional or willful acts or omissions of the party being indemnified, its contractors, employees, agents or others acting by, through, under or on behalf of such party.
- 12. <u>No Merger.</u> If any party shall become the fee owner of any part of the subject real property who is also the holder of a beneficial easement interest created hereunder, said fee interest and beneficial interest shall not merge into the fee estate.
- 13. Attorney's Fees. In the event of a dispute arising under this Agreement, the prevailing party shall be entitled to recover its reasonable attorneys' fees and costs, including attorneys' fees and costs incurred in litigating entitlement to attorneys' fees and costs, as well as in determining or quantifying the amount of recoverable attorneys' fees and costs. The reasonable costs to which the prevailing party is entitled shall include costs that are taxable under any applicable statute, rule or guideline, as well as non-taxable costs, including, but not limited to, costs of investigation, copying costs, electronic discovery costs, telephone charges, mailing and delivery charges, information technology support charges, consultant and expert witness fees, travel expenses, court reporter fees, and mediator fees, regardless of whether such costs are otherwise taxable. The party prevailing in said legal proceedings shall be entitled to recover from the party not prevailing in said legal proceedings reasonable attorneys' fees and court costs incurred incidental thereto, including, without limitation, fees and costs incurred in appellate proceedings and in bankruptcy.
- 14. Applicable Law. This Agreement shall be governed by and construed in accordance with the laws of the State of Florida, exclusive of any conflict of laws provisions thereof that would apply the laws of another jurisdiction. Calmil and Rock RDP 1 hereby submit to the jurisdiction of, and agree that venue for actions hereunder shall be, in the Circuit Court of the State of Florida sitting in Orange County, Florida, and Calmil and Rock RDP 1 each hereby waive any objection to venue in such courts and any objection to any action or proceeding on the basis of forum non-conveniens.
- 15. Entire Agreement. This Agreement contains the entire agreement between Rock RDP 1 and Calmil with respect to the subject matter contained herein, and no representations, inducements, promises or agreements, oral or otherwise, not embodied herein shall be binding upon the owners hereto.

- Notices. Any notice required or permitted to be given hereunder shall be in writing and shall be (i) personally delivered, (ii) transmitted by postage pre-paid registered mail, or (iii) transmitted by a recognized overnight courier service to Calmil and Rock RDP 1, their successor and or assigns, to the address used by the Orange County Tax Collector, or any successor thereto, for the delivery of invoices for the payment of ad valorem property taxes. Any notice required or given hereunder shall only be deemed as having been received (i) upon actual receipt if delivered by hand, (ii) the day following deposit thereof if sent via nationally recognized overnight courier service for next day delivery or (iii) upon receipt or refusal if sent by certified mail, return receipt requested or upon refusal to accept delivery from any overnight courier. Either party may, from time to time, give notice to the other party of some other address to which notices or other communications to such party shall be sent, in which event, notices or other communications to such party shall be sent to such address. If any notice or other communication described in this Agreement is sent by either party hereto to the other and such notice or other communication was not sent in accordance with the foregoing terms of this Section but was, in fact, actually received by the other party, then such notice or other communication shall be deemed to have been duly given by the sending party and received by the recipient party effective as of such date of actual receipt. If any notice is tendered and is refused by the intended recipient, such notice shall nonetheless be considered to have been given and shall be effective as of the date provided herein.
- 17. Force Majeure. Except with respect to any failure to pay any sum due hereunder as a result of bankruptcy, insolvency or refusal or inability to pay, if either party shall be delayed or hindered in whole or in part, or prevented from, the performance of any non-monetary covenant or obligation hereunder as a result of acts of God, fire or other casualty, earthquake, hurricane, flood, epidemic, landslide, enemy act, acts of war, acts of terrorism or bioterrorism, riot, intervention by civil or military authorities of government, insurrection or other civil commotion, general unavailability of certain materials, strikes, boycotts, lockouts, labor disputes or work stoppage beyond the control of either party hereto, then the performance of such covenant or obligation, shall be excused for the period of such delay, hindrance or prevention and the period of the performance of such covenant or obligation shall be extended by the number of days equivalent to the number of days of such delay, hindrance or prevention. The delayed or hindered party shall promptly notify the other party of any force majeure event affecting the delayed or hindered party's performance under this Agreement.
- 18. <u>Severability</u>. The invalidity or unenforceability of any provision or portion of this Agreement will not affect the validity of the remainder of this Agreement. If any provision of this Agreement is determined to be invalid or unenforceable, Calmil and Rock RDP 1 will negotiate in good faith to agree upon substitute provisions to carry out the purpose and intent of the invalid or unenforceable provision.
- 19. <u>Miscellaneous</u>. With or without specific reference thereto, the conveyance of an interest in all or any portion of either Calmil Property or the Rock RDP 1 Property shall be subject to the benefits and burdens of the easements hereby created, granted and conveyed to the same extent as if all the terms and conditions of this Agreement were set forth in full in such conveyance. The easements, covenants, agreements, obligations and conditions contained herein shall not be personal, but shall run with the land and shall be binding upon and inure to the benefit of the owners of all portions of Calmil Property and the Rock RDP 1 Property, the successors and assigns of said owners, and the tenants, agents, licensees, guests and invitees of each of them. The caption included herein are for reference only and should not be used in construing any of the terms hereof.

in the presence of:	CALMIL
Calmil Investment Group, LP	<i>,</i>
Frank J. Chin	By: Author June Kenneth L. Jureit, General Partner
Print: Kotchyn Bayer Frank J. Chin Print: Frank J. Chin	Kenneth L. Jureit as Trustee of THE KENNETH LEE JUREIT LIVING TRUST dated February 12, 2002, as amended
Print: Katelyn Rayer	
2014, by Kenneth L. Jureit, as trustee and	nowledged before me this 28th day of August, das general partner of Calmil Investment Group, who is personally known to me or who presented NOTARY PUBLIC
My commission expires: w	Print Name: Ross_
•	My Commission Expires November 21, 2018 AUBLIC AUBLI

Rock RDP 1

Rock RDP 1, LLC, A Florida limited liability company

By: ROCK CELLULAR, LLC,

A Florida limited liability company,

As it's sole Manager

By:

ROCK PROPERTIES, INC.,

a Florida corporation, as its sole Manager

Title: President

STATE OF FLORIDA) COUNTY OF ORANGE)

The foregoing instrument was acknowledged before me this May of Schember, 2014, by Grey 1. 2 nekeron, as Westland of Rock RDP 1, LLC, a Florida limited liability company, on behalf of the limited liability company, who is personally known to me or who presented a valid driver's license as identification.



NOTARY PUBLIC STATE OF FLORIDA

Print Name: _

My commission expires:

EXHIBIT "A" ROCK RDP 1PROPERTY

EXHIBIT "A"

ROCK RDP 1 PROPERTY LEGAL DESCRIPTION

THE WEST 127.94 FEET OF THE S.W. 1/4 OF THE S.E. 1/4 OF SECTION 5, TOWNSHIP 21 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA, LYING SOUTH OF U.S. HIGHWAY 441 AND NORTH OF THE SEABOARD COASTLINE RAILROAD RIGHT-OF-WAY, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE INTERSECTION OF THE SOUTH RIGHT-OF-WAY LINE OF U.S. HIGHWAY 441 (163 FEET WIDE) WITH THE WEST BOUNDARY OF THE S.W. 1/4 OF THE S.E. 1/4 OF SAID SECTION 5, SAID POINT BEING ON THE EAST RIGHT-OF-WAY LINE OF LAKE DOE BOULEVARD (60 FEET WIDE); THENCE SO0°54'42"W ALONG SAID WEST BOUNDARY AND SAID EAST RIGHT-OF-WAY LINE, A DISTANCE OF 300.39 FEET TO THE NORTH RIGHT-OF-WAY LINE OF THE SEABOARD COASTLINE RAILROAD (120 FEET WIDE); THENCE DEPARTING SAID WEST BOUNDARY AND EAST RIGHT-OF-WAY LINE, PROCEED S78°27'33"E ALONG SAID NORTH RIGHT-OF-WAY LINE, A DISTANCE OF 130.18 FEET; THENCE DEPARTING SAID NORTH RIGHT-OF-WAY LINE, PROCEED NO0°54'42"E, A DISTANCE OF 267.56 FEET TO A POINT ON THE AFOREMENTIONED SOUTH RIGHT-OF-WAY LINE OF U.S. HIGHWAY 441; THENCE N65°08'03"W ALONG SAID RIGHT-OF-WAY LINE, A DISTANCE OF 140.00 FEET TO THE POINT OF BEGINNING.

1105 S.E. 3rd Avenue
 Ocala, Florida 34471
 Ph. (352) 622-9214
 Lic. Bus. #4074

SCALE

DATE 6-02-14

EXHIBIT "B" CALMIL PROPERTY

EXHIBIT "B"

CALMIL PROPERTY LEGAL DESCRIPTION

THE S.W. 1/4 OF THE S.E. 1/4 OF SECTION 5, TOWNSHIP 21 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA, LYING SOUTH OF U.S. HIGHWAY 441 AND NORTH OF THE SEABOARD COASTLINE RAILROAD RIGHT-OF-WAY EXCEPT THE WEST 127.94 FEET THEREOF.

ROGERS ENGINEERING, LLC
Civil Engineering & Land Surveying

1105 S.E. 3rd Avenue
Ocala, Florida 34471
Ph. (352) 622-9214
Lic. Bus. #4074

SCALE

DATE 6-02-14

EXHIBIT "C" UTILITY EASEMENT AREA

EXHIBIT "C" UTILITY EASEMENT

LEGAL DESCRIPTION - UTILITY EASEMENT

COMMENCE AT THE INTERSECTION OF THE SOUTH RIGHT-OF-WAY LINE OF U.S. HIGHWAY 441 (163 FEET WIDE) WITH THE WEST BOUNDARY OF THE S.W. 1/4 OF THE S.E. 1/4 OF SAID SECTION 5, SAID POINT BEING ON THE EAST RIGHT-OF-WAY LINE OF LAKE DOE BOULEVARD (60 FEET WIDE); THENCE SO0°54'42"W ALONG SAID WEST BOUNDARY AND SAID EAST RIGHT-OF-WAY LINE, A DISTANCE OF 220.39 FEET TO THE POINT OF BEGINNING; THENCE DEPARTING SAID RIGHT-OF-WAY LINE, PROCEED S78°27'33"E, A DISTANCE OF 130.18 FEET TO A POINT ON THE EAST PROPERTY LINE OF THE PARENT PARCEL; THENCE SO0°54'42"W ALONG SAID EAST PROPERTY LINE, A DISTANCE OF 24.42 FEET; THENCE DEPARTING SAID EAST PROPERTY LINE, PROCEED N78°27'33"W, A DISTANCE OF 130.18 FEET TO A POINT ON THE AFOREMENTIONED EAST RIGHT-OF-WAY LINE OF LAKE DOE BOULEVARD; THENCE N00°54'42"E ALONG SAID RIGHT-OF-WAY LINE, A DISTANCE OF 24.42 FEET TO THE POINT OF BEGINNING.

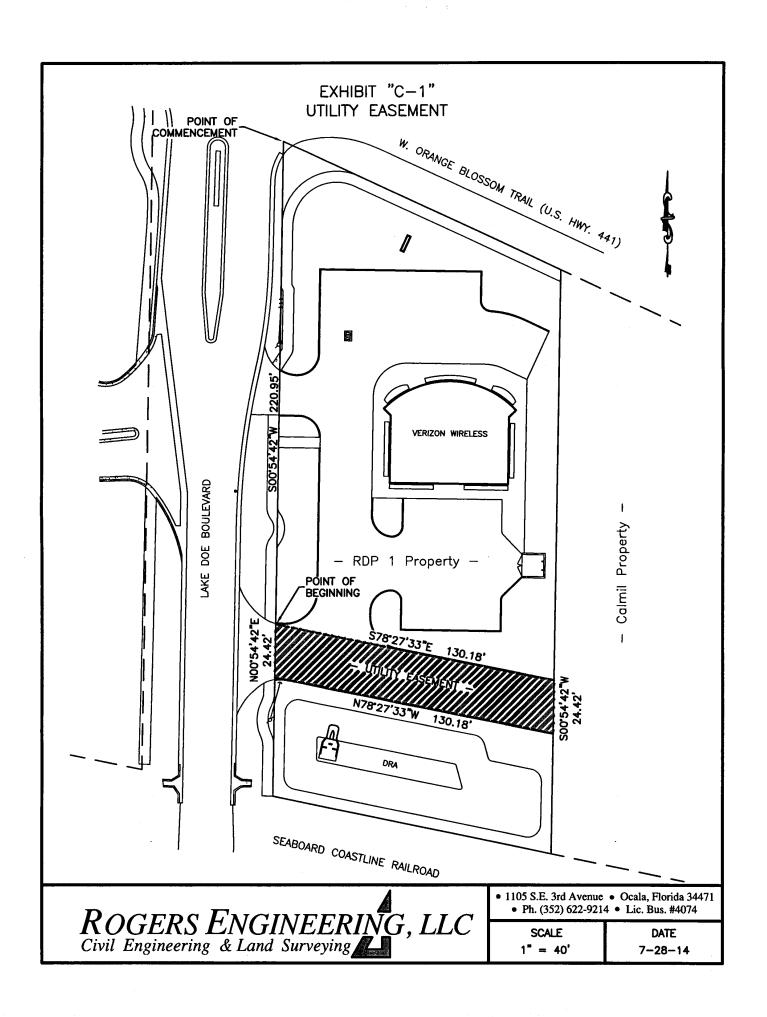


EXHIBIT "D" SEWER LINE EASEMENT AREA

EXHIBIT "D" SEWER EASEMENT

LEGAL DESCRIPTION - SEWER EASEMENT

A 10 FEET WIDE EASEMENT, LYING 5 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

COMMENCE AT THE INTERSECTION OF THE SOUTH RIGHT-OF-WAY LINE OF U.S. HIGHWAY 441 (163 FEET WIDE) WITH THE WEST BOUNDARY OF THE S.W. 1/4 OF THE S.E. 1/4 OF SAID SECTION 5, SAID POINT BEING ON THE EAST RIGHT-OF-WAY LINE OF LAKE DOE BOULEVARD (60 FEET WIDE); THENCE SO0°54'42"W ALONG SAID WEST BOUNDARY AND SAID EAST RIGHT-OF-WAY LINE, A DISTANCE OF 219.47 FEET TO THE POINT OF BEGINNING OF SAID CENTERLINE; THENCE DEPARTING SAID RIGHT-OF-WAY LINE, PROCEED S89°59'36"E, A DISTANCE OF 127.96 FEET TO THE POINT OF TERMINUS, SAID POINT BEING ON THE EAST PROPERTY LINE OF THE PARENT PARCEL, LENGTHENING AND SHORTENING THE SIDE LINES TO INTERSECT THE EAST RIGHT-OF-WAY LINE OF LAKE DOE BOULEVARD AND THE EAST PROPERTY LINE OF THE PARENT PARCEL.



1105 S.E. 3rd Avenue
 Ocala, Florida 34471
 Ph. (352) 622-9214
 Lic. Bus. #4074

SCALE

DATE 7-28-14

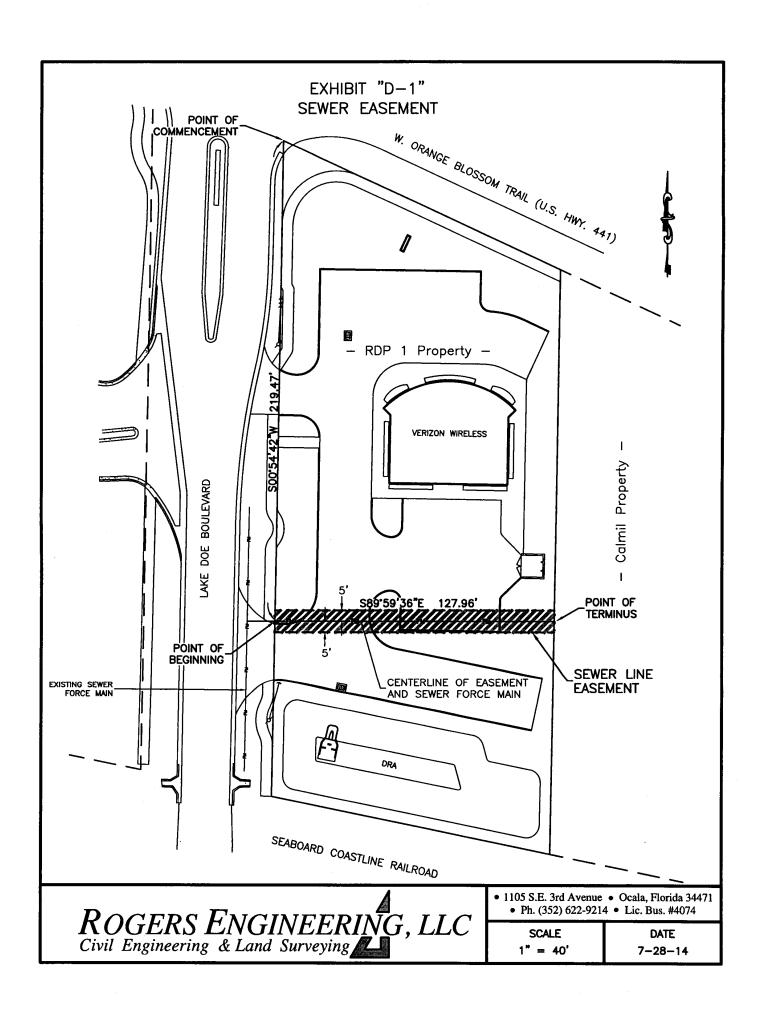
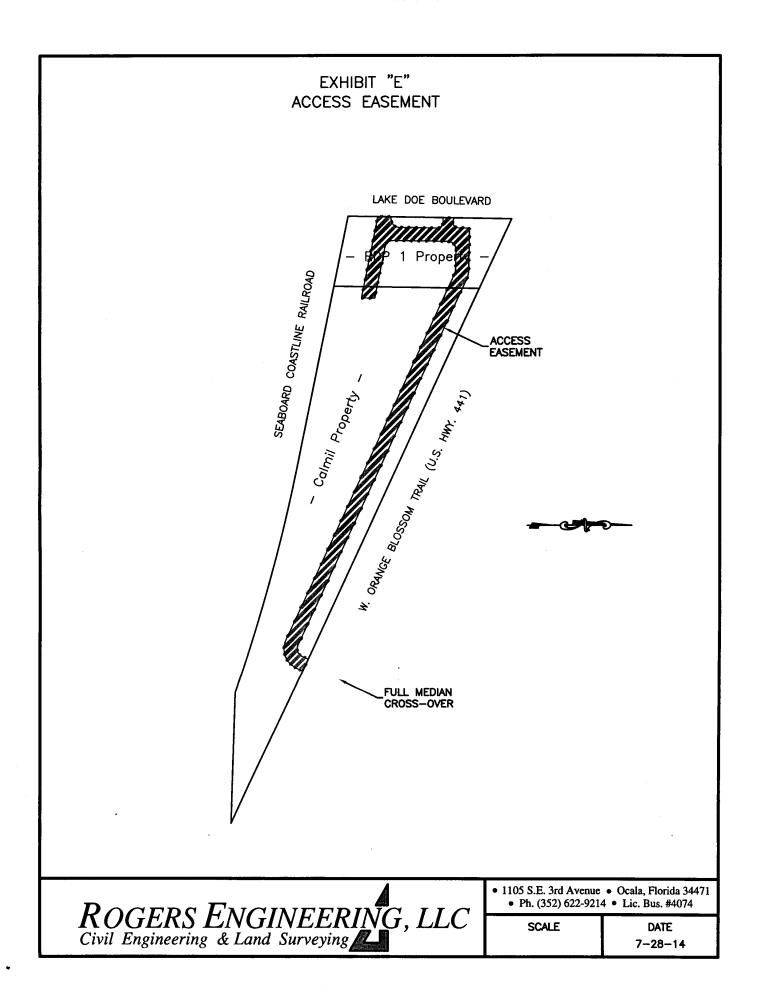
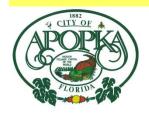


EXHIBIT "E"

MUTUAL ACCESS, INGRESS AND EGRESS EASEMENT AREA





CITY OF APOPKA PLANNING COMMISSION

X PUBLIC HEARING

X SITE PLAN: Final Development Plan

SPECIAL REPORTS

OTHER:

MEETING OF: August 14, 2018

FROM: Community Development

EXHIBITS: Vicinity Map

Zoning Map

Aerial Map

Final Development Plan Architectural Renderings Access & Utility Easement

SUBJECT: FINAL DEVELOPMENT PLAN – SITE PLAN – IHOP RESTAURANT

REQUEST: RECOMMEND APPROVAL OF THE FINAL DEVELOPMENT PLAN/SITE

PLAN FOR THE IHOP RESTAURANT

SUMMARY:

OWNER/APPLICANT: Calmil Investment Group LP 95% Int Kenneth Lee Jureit Trust 5% Int

ENGINEER: Rogers Engineering, LLC, c/o Wallace L. Brinkman III, P.E.

LOCATION: 1120 West Orange Blossom Trail

PARCEL ID #s: 05-21-28-0000-00-025 (portion)

FUTURE LAND USE: Commercial

ZONING: C-2 (General Commercial)

EXISTING USE: Vacant

PROPOSED USE: Restaurant

TRACT SIZE: 2.25 +/- acres

BUILDING SIZE: 4,500 square feet

FLOOR AREA RATIO 0.046 (0.25 Maximum)

DISTRIBUTION

Mayor NelsonFinance DirectorPublic Services DirectorCommissionersHR DirectorRecreation Director

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

G:\CommDev\PLANNING ZONING\SITE PLANS\2018\IHOP Restaurant\4 Planning Com Hearing

PLANNING COMMISSION – AUGUST 14, 2018 IHOP RESTAURANT – FINAL DEVELOPMENT PLAN PAGE 2

RELATIONSHIP TO ADJACENT PROPERTIES:

Direction	Future Land Use	Zoning	Present Use
North (City)	Commercial	PUD (Commercial)	Automobile Service Station and Multi-tenant Center
East (City)	Commercial	C-1 (Retail Commercial)	Retention Pond
South (County and City)	Residential	County I-4 (Heavy Industrial District) and City R-1 (Residential Single-Family District)	Railroad and Single Family Residential Subdivision (Poe Reserve)
West (City)	Commercial	C-2 (General Commercial District)	Retail Sales

PROJECT SUMMARY: This is a request to approve the IHOP Restaurant – Final Development Plan that includes a building size of 4,500 square feet. A preliminary development plan is not required for development proposing less than 10,000 sq. ft. of building floor area.

PARKING: Per Land Development Code parking requirements, 48 parking spaces are required while the applicant is proposing 70 parking spaces, four of which are reserved as a handicapped accessible spaces.

<u>ACCESS/TRANSPORTATION</u>: The site will have access to U.S. 441 via a full access at the northern end through cross-access easement within the Verizon Store and AutoZone parcels, and two access driveways along U.S. 441 within the IHOP site, one full-access and one right-in, right-out only.

AutoZone and IHOP are proposed on a single parcel and will share all access; accordingly, a single transportation impact analysis (TIA) was submitted to evaluate the combined impacts of AutoZone and IHOP on the surrounding roadway segments and intersections. Included in the analysis were segments of U.S 441/W Orange Blossom Trail, Errol Parkway, Lake Doe Boulevard, and Old Dixie Highway. Intersections analyzed were U.S. 441/W Orange Blossom Trail and Vick Road; U.S. 441/W Orange Blossom Trail and Errol Parkway; Old Dixie Highway and Errol Parkway; Old Dixie Highway and Vick Road; Lake Doe Boulevard site entrance; and U.S. 441/W Orange Blossom Trail site entrances.

The projects will generate 503 daily and 44 P.M. Peak Hour Net New trips. The addition of these project trips to the study roadways and intersections will not cause the Level of Service (LOS) to fall below the City's adopted LOS standard.

Right and left turn warrant analyses were conducted for the site entrances on U.S. 441 and concluded that turn lanes are not needed to safely accommodate project traffic.

Both access driveways on U.S. 441/W Orange Blossom Trail are required for the site at the time of development of either project if they are not developed simultaneously.

EXTERIOR ELEVATIONS: The height of the proposed building is 27 feet, well below the maximum allowable height of 35 feet. Staff has found the proposed building elevations meet the intent of the City's Development Design Standards\Guidelines.

PLANNING COMMISSION – AUGUST 14, 2018 IHOP RESTAURANT – FINAL DEVELOPMENT PLAN PAGE 3

STORMWATER: The stormwater management system includes an on-site retention area, on the southern portion of the project site. The stormwater pond design meets the City's Land Development Code requirements.

BUFFER/SCREENING/LANDSCAPING/TREE PROGRAM: As part of the development plan approval, Ligustrum and Crepe Myrtles, and Indian Hawthorn shrubs line the 10-foot wide buffer adjacent to the U.S. Highway 441. Magnolias are placed in the parking landscaped islands

Arbor Assessment

Total inches on-site (before removal):	161
Total specimen inches removed	56
Total non-specimen inches removed	95
Total inches retained:	10
Total inches added:	281
Total inches post development:	291

<u>CONDITION OF APPROVAL</u>: All access driveways must be constructed and all associated cross access easements must be recorded across both the IHOP and AutoZone sites prior to issuance of a certificate of occupancy on either site.

PUBLIC HEARING SCHEDULE:

August 14, 2018 – Planning Commission, 5:30 pm September 5, 2018 – City Council, 1:30 pm

RECOMMENDATION ACTION:

The **Development Review Committee** recommends approval of the IHOP Restaurant – Final Development Plan, subject to the Conditions of Approval and the findings of this staff report.

Planning Commission Recommendation: Find the IHOP Restaurant – Final Development Plan consistent with the Land Development Code and Comprehensive Plan, and recommend approval of Final Development Plan, subject to the Conditions of Approval and 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 or deny based on consistency with the 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.

PLANNING COMMISSION – AUGUST 14, 2018 IHOP RESTAURANT – FINAL DEVELOPMENT PLAN PAGE 4

Application: IHOP Restaurant Final Development Plan

Owner/Applicant: Calmil Investment Group LP 95% Int; Kenneth Lee Jureit Trust 5% Int

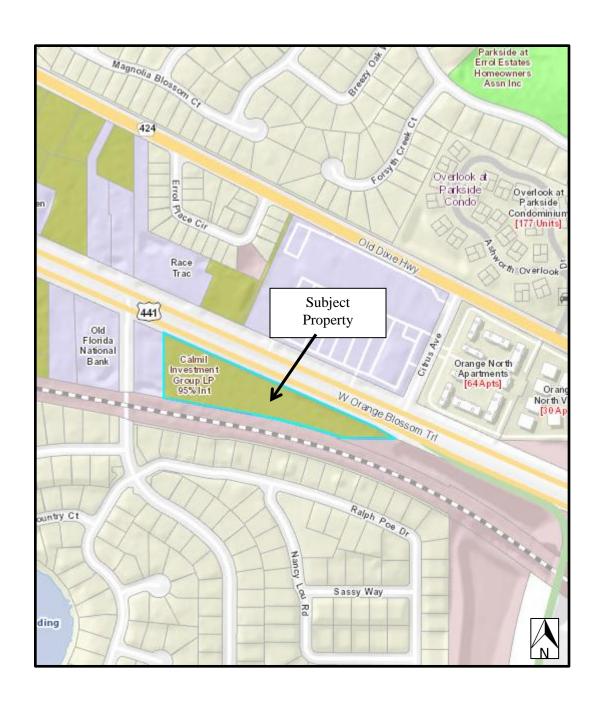
Engineer: Rogers Engineering, LLC, c/o Wallace L. Brinkman III, P.E.

Location: 1120 West Orange Blossom Trail

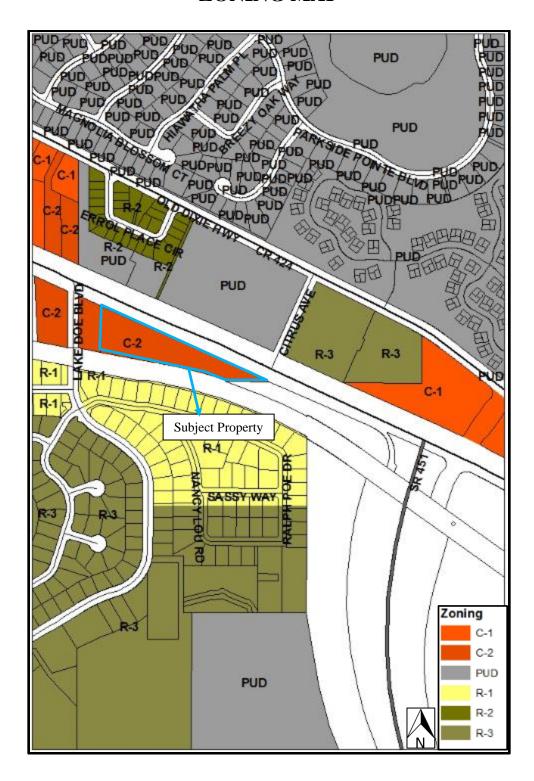
Parcel I.D. #: 05-21-28-0000-00-025

Total Site Area: 3.30 acres +/-

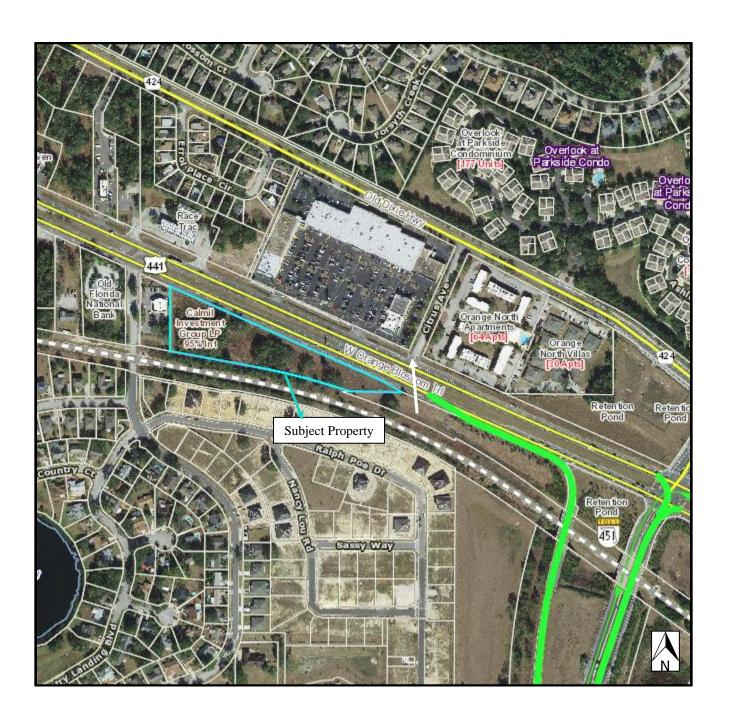
VICINITY MAP

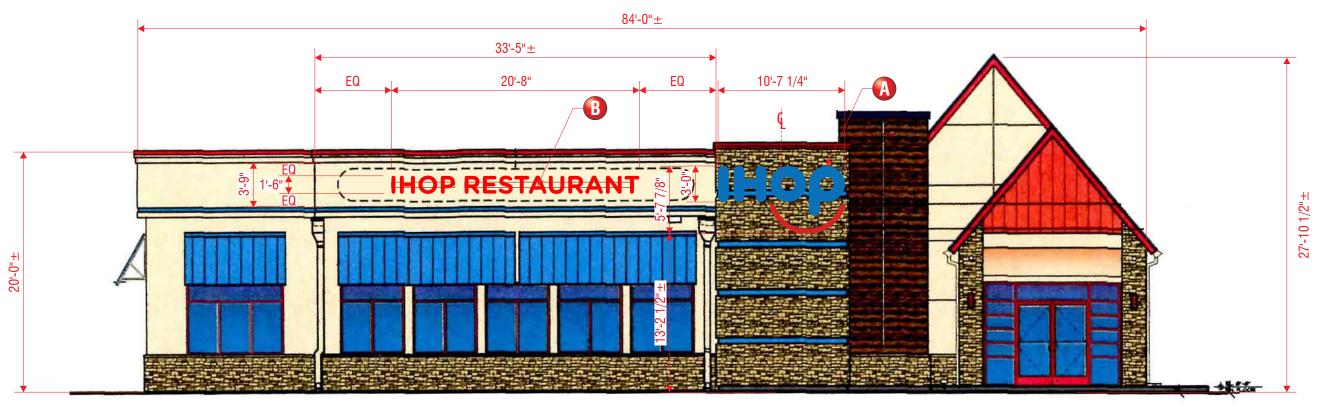


ZONING MAP

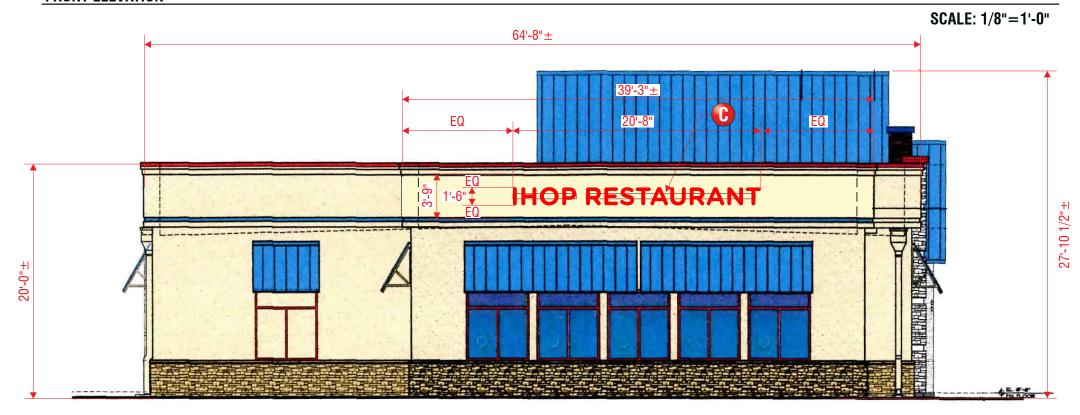


AERIAL MAP





FRONT ELEVATION



LEFT SIDE ELEVATION

SCALE: 1/8"=1'-0"



VISUAL COMMUNICATIONS www.FederalHeath.com 2300 North Highway 121 Euless, Texas 76039 (817) 685-9077 (800) 527-9495 Fax (817) 685-9103 Manufacturing Facilities: Oceanside, CA - Euless, TX - Jacksonville, TX Delaware, OH - Racine, WI

Oceanside, CA - Las Vegas, NV - Laughlin, AZ daho Falls, ID - Euless, TX - Jacksonville, TX - San Antonio, TX Houston, TX - Corpus Christi, TX - Indianapolis, IN Louisville, KY - Knoxville, TN - Grafton, WI - Delaware, OH Willowbrook, IL - Tunica, MS - Atlanta, GA Tampa, FL - Daytona Beach, FL - Orlando, FL

Building Quality Signage Since 1901

R1 2.16.17 JDR Update F to monument	Account Rep: Matt Smith
R2 6.8.17 MH Add New Site Plan	Project Manager: Amber Rhodes
	Drawn By: Virgo Argones/CHC
olors Depicted In This Rendering May Not Match Actual Finished Materials. Refer To Product Samples For Exact Color Match.	Underwriters Laboratories Inc. Underwriters Laboratories Inc.
Client Approval/Date:	Laboratories Inc.
andlord Approval/Date:	ALL ELECTRICAL SIGNS ARE TO COMPLY WITH U.L. 48 AND ARTICLE 600 OF THE N.E.C. STANDARDS, INCLUDING THE PROPER GROUNDING AND BONDING OF ALL SIGNS.

Account Rep: Matt Smith Project Manager: Amber Rhodes Virgo Argones/CHC Underwriters Laboratories Inc.

Project / Location: 2803 RIDGEWAY

LAKE WALES, FL 33859

23-41474-10 Job Number: FEBRUARY 09, 2017 **2** Of **6** Sheet Number: Design Number: 23-41474-10 R2 Company, LLC of its authorized agent. ©FHSC

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RIGHT SIDE ELEVATION

SCALE: 1/8"=1'-0" 84'-0"± 40'-5"± 1 EQ 20'-8" EQ HOP RESTAURANT 27'-10 1/2"±

SCALE: 1/8"=1'-0"



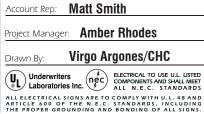
www.FederalHeath.com 2300 North Highway 121 Euless, Texas 76039 (817) 685-9077 (800) 527-9495 Fax (817) 685-9103 Manufacturing Facilities: Oceanside, CA - Euless, TX - Jacksonville, TX Delaware, OH - Racine, WI

REAR ELEVATION

Oceanside, CA - Las Vegas, NV - Laughlin, AZ Idaho Falls, ID - Euless, TX - Jacksonville, TX - San Antonio, TX Houston, TX - Corpus Christi, TX - Indianapolis, IN Louisville, KY - Knoxville, TN - Grafton, WI - Delaware, OH Willowbrook, IL - Tunica, MS - Atlanta, GA Tampa, FL - Daytona Beach, FL - Orlando, FL

Building Quality Signage Since 1901

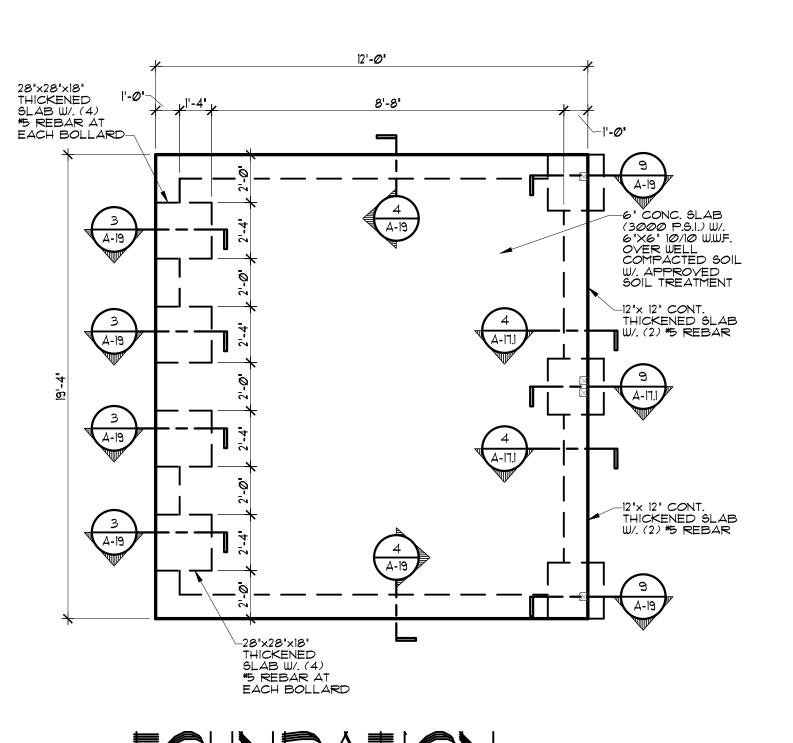
Revisions: R1 2.16	6.17 JDR Update F to monument	
R2 6.8.	17 MH Add New Site Plan	
Colors Depicted In Th	nis Rendering May Not Match Actual Fir	ished Materials. Refer To Product Samples For Exact Color Match.
Client Approva	l/Date:	
Landlord Appro	oval/Date:	

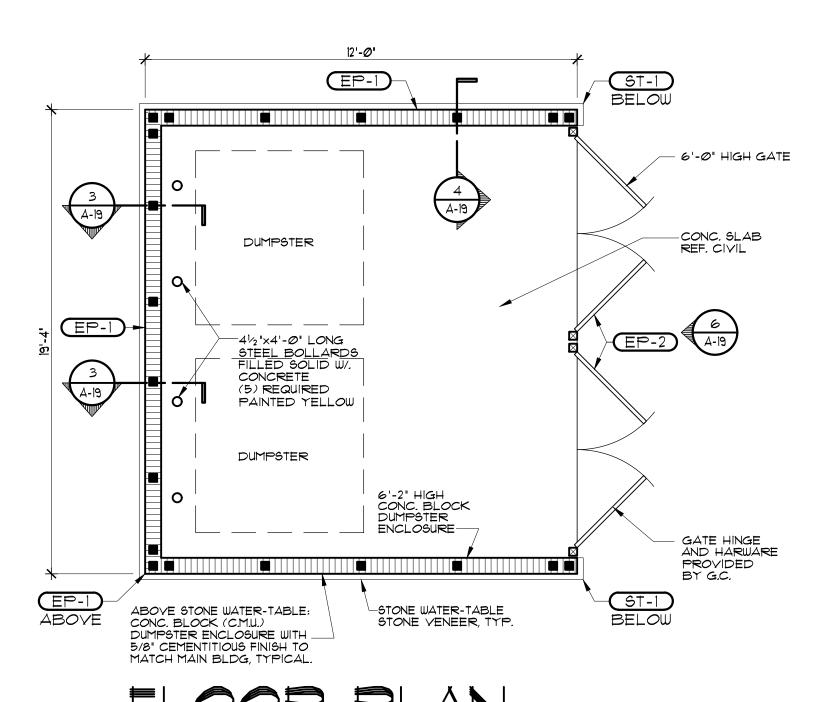


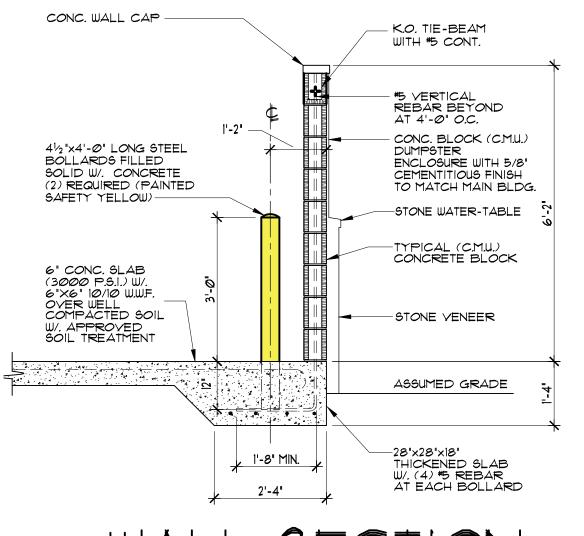


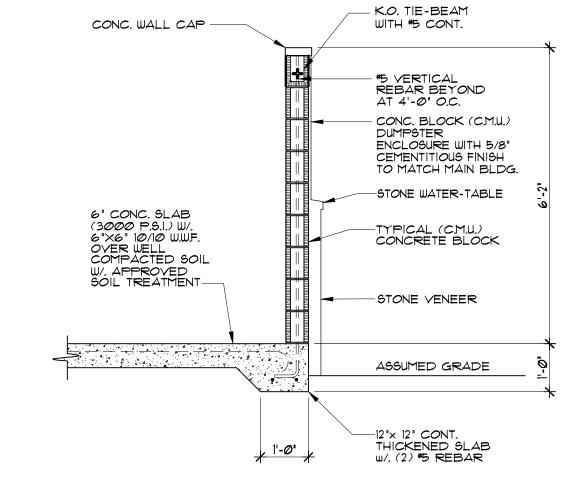
23-41474-10 Job Number: FEBRUARY 09, 2017 **3** Of **6** Sheet Number: Design Number: 23-41474-10 R2 Company, LLC of its authorized agent. ©FHSC

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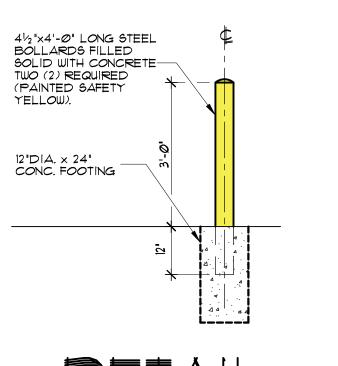


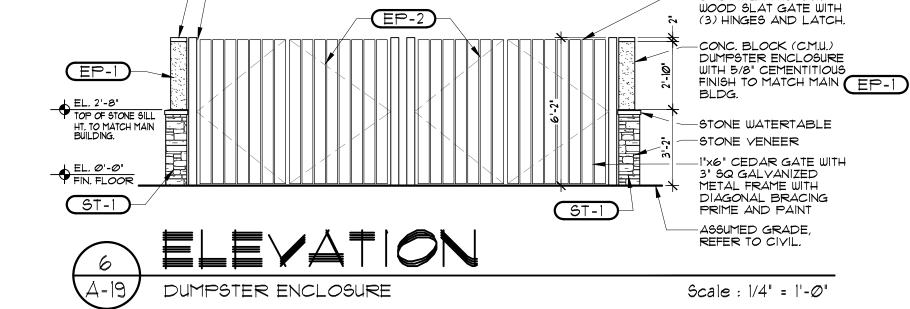




-6'-0" HIGH I"x6" P.T.



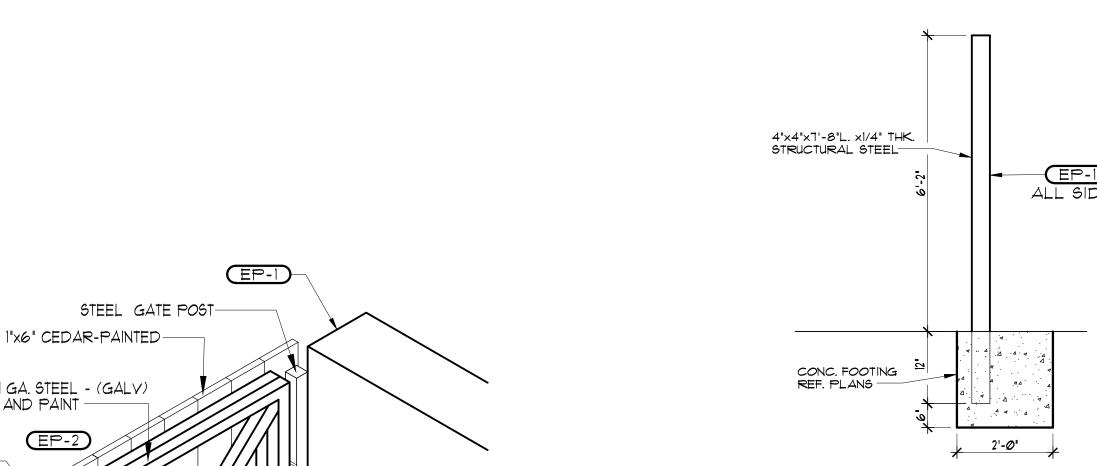




Scale : 1/4" = $1'-\emptyset$ "

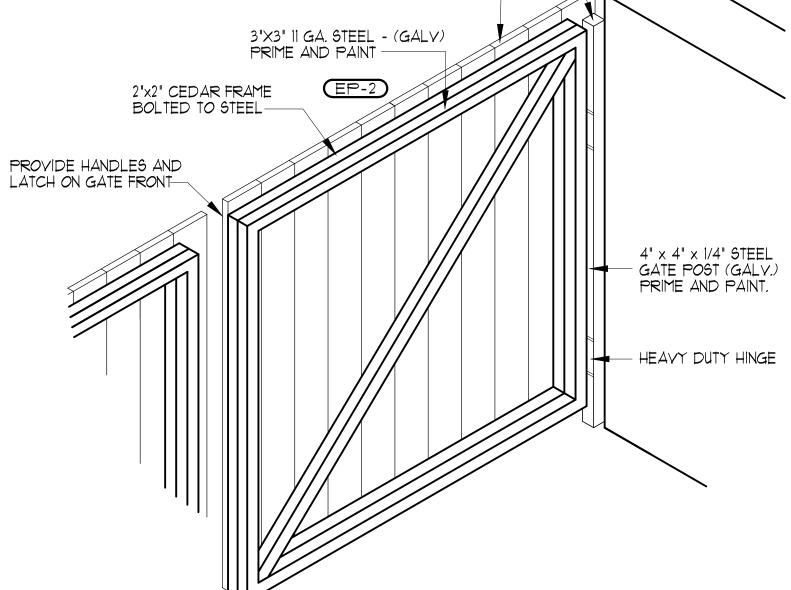
____2" THK. MASONRY CAP

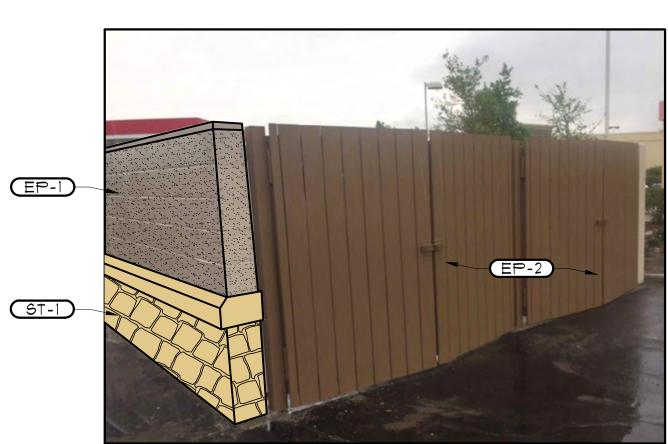
HEAVY DUTY BLOCK HINGES 3 PER GATE HALF



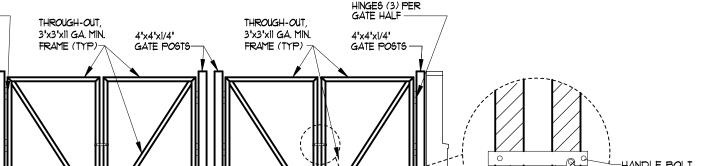






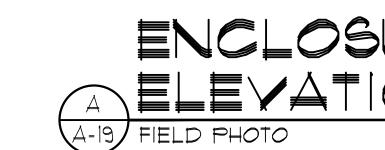


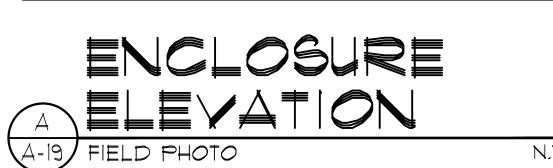
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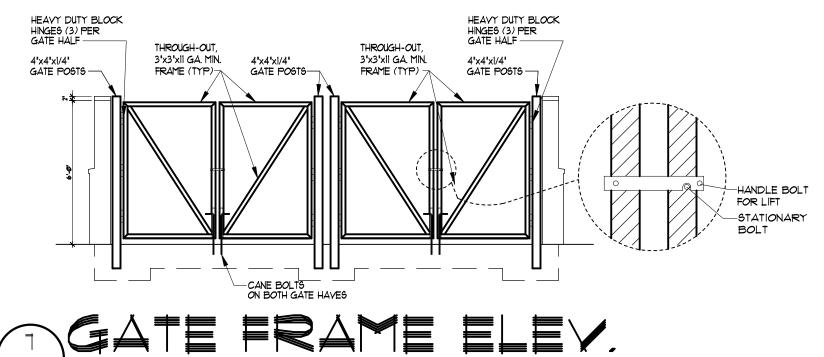


DUMPSTER ENCLOSURE GATE DETAIL









N.T.S.

18048

Scale : 1/4" = $1'-\emptyset$ "

N.T.S.

STONE VENEER :

ST-1 = STONE VENEER : CULTURED STONE LONE STAR STONE HILL COUNTRY CAULK

Revisions:

ISSUED FOR:

PERMIT

×,07–18–2018,4

MICHAEL F. SOFARELLI, JE FLORIDA STATE BOARD OF ARCHITECTURE

REGISTRATION No.

AR 0014577

STORE # T.B.D.

DUMPSTER ENCLOSURE DETAILS

ICON PROTO - R.H. APOPKA, FLORIDA

*0*6-28-2*0*18

A FINAL DEVELOPMENT PLAN

FOR

TAURAN

1120 W. Orange Blossom Trail

Apopka, Florida

PROJECT TEAM

DEVELOPER:

RETAIL DEVELOPMENT PROPERTIES, LLC 140 E. MORSE BLVD. #J WINTER PARK, FLORIDA 32789 PHONE: 407-766-1000 CONTACT: ROBERT GIERKE EMAIL: rgierke@retaildevelopmentproperties.com

OWNER:

CALMIL INVESTMENT GROUP LP (95% INT.) KENNETH LEE JUREIT TRUST (5% INT.) 5905 MORAY CT NW CONCORD, NC 28027 PHONE: 704-787-9017 CONTACT: KENNETH JUREIT

SOFARELLI & ASSOCIATES ARCHITECTURE, INC. 6365 142ND AVENUE NORTH CLEARWATER, FLORIDA 33760 PHONE: 727-530-3535 CONTACT: MICHAEL SOFARELLI, JR., A.I.A.

ROGERS ENGINEERING, LLC 1105 S.F. 3RD AVE. OCALA, FLORIDA 34471 PHONE: 352-622-9214 CONTACT: WALLY BRINKMAN, P.E.

SURVEYOR:

CIVIL ENGINEER:

1105 S.E. 3RD AVE. OCALA, FLORIDA 34471 PHONE: 352-622-9214 CONTACT: RODNEY ROGERS P.S.M. EMAIL: rkrogers@rogerseng.com

1920 S.E. 8TH ST. 0CALA, FLORIDA 34478 PHONE: 352-622-8899 CONTACT: ANDY KESSELRING, P.LA., A.S.LA., I.S.A.

GENERAL NOTES:

- 5. ALL STRIPING SHALL BE 6 "WIDE TRAFFIC PAINT, UNLESS OTHERWISE INDICATED, APPLIED WITH DOUBLE COAT A MINIMUM OF 24 HOURS APART. ALL STOP BARS SHALL BE LEAD FREE THERMOPLASTIC.
- 6. ALL CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THE SITE VIA THE GRAVEL CONSTRUCTION ENTRANCE SHOWN ON THE TREE REMOVAL & EROSION CONTROL PLAN.
- ALL STORM WATER MANAGEMENT SYSTEMS SHALL BE COMPLETED PRIOR TO THE CONSTRUCTION OF IMPERVIOUS AREAS.
- 9. ALL UTILITY CONSTRUCTION SHALL MEET THE CURRENT CITY OF APOPKA STANDARDS.
- 10. LIGHT POLE FIXTURES CANNOT EXCEED THE HEIGHT OF THE BUILDING. 11. LIGHT POLE FOOTERS CANNOT BE EXPOSED ABOVE FINISH GRADE.
- 12. NO OUTDOOR STORAGE OR DISPLAY WILL OCCUR UNLESS AN AREA IS DESIGNATED AS SUCH.

T.B.M. F.F. ELEV. INV. ES-1 ONP RCP C.O. G.I. PVC

ROGERS ENGINEERING, LLC

LANDSCAPE ARCHITECT:

EDK - ENVIRONMENTAL DESIGN

- 1. ON-SITE ASPHALT PAVEMENT SHALL BE 1.5" TYPE SP-9.5 ASPHALT OVER 6" LIMEROCK BASE (LBR 100-98% DENSITY) OVER 12" STABILIZED SUBGRADE (LBR 40-98% DENSITY). CONCRETE WALKS SHALL BE 4" THICK, 3,000 PSI WITH FIBER MESH. EXPANSION JOINTS SHALL BE 10 FT O.C. WITH CONSTRUCTION JOINTS AT 5 FT O.C.
- 2. ALL CONCRETE SHALL BE 3000 P.S.I. 28 DAY STRENGTH.
- 3. ALL GROUND AREAS DISTURBED BY CONSTRUCTION SHALL BE IMMEDIATELY SODDED FOLLOWING FINAL GRADING. ALLOW FOR THICKNESS OF SOD WITH A 2-INCH UNDERCUT. SOD SHALL BE ARGENTINA BAHA UNLESS OTHERWISE NOTED ON LANDSCAPE PLAN, AND SHALL BE REGULARLY WATERED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION.
- 4. TO PREVENT EROSION DURING CONSTRUCTION, SILT FENCING SHALL BE INSTALLED AS INDICATED ON THE TREE REMOVAL & EROSION CONTROL PLAN AND MAINTAINED UNTIL THE COMPLETION OF SODDING AND LANDSCAPING.
- 7. IRRIGATION SHALL BE PROVIDED FOR 100% OF THE SITE'S OPEN SPACE THROUGH THE ESTABLISHMENT PERIOD.

SHEET INDEX

SHEET NO.	CONTENTS
C0.0	TITLE SHEET
C1.0	BOUNDARY & TOPOGRAPHIC SURVEY
C2.0	EROSION CONTROL & TREE REMOVAL PLAN
C2.1	STORMWATER POLLUTION PREVENTION PLAN
C3.0	SITE LAYOUT PLAN
C4.0	PAVING, GRADING, & DRAINAGE PLAN
C5.0	UTILITY PLAN
C6.0	F.D.O.T. DRIVEWAY CONNECTION PLAN
C6.1	F.D.O.T. TURN LANE PLAN
C7.0	GENERAL CONSTRUCTION DETAILS
C7.1	PRIVATE LIFT STATION DETAILS
C8.0-C8.1	CITY OF APOPKA STANDARD DETAILS
C9.0	VEHICLE ROUTING PLAN
C10.0	EASEMENT PLAN
L001-L002	LANDSCAPE PLAN
L003-L004	IRRIGATION PLAN
L005	LANDSCAPE & IRRIGATION NOTES
E-6	SITE PHOTOMETRIC PLAN
F-61	SITE PHOTOMETRIC DETAILS PLAN

SCALE: 1" = 2,000 S.F.

SECTION 5, TOWNSHIP 21 S., RANGE 28 E.

LOCATION MAP



SITE DATA:

PROJECT NAME: IHOP RESTAURANT

PARCEL NO.: 05-21-28-0000-00-025

OVERALL PARCEL AREA: 3.32 ACRES (144,593 S.F.)

PROJECT AREA: 2.25 ACRES (97,912 S.F.)

LAND USE/ZONING: COMMERCIAL/C-2

PROPOSED USE: RESTAURANT

THIS SITE IS NOT LOCATED IN A FLOOD ZONE PER FEMA MAP NUMBER 12095C0120F

IMPERVIOUS AREA CALCULATIONS:

PROJECT AREA: 97,912 S.F. (2.25 ACRES)

PROPOSED IMPERVIOUS AREA

PVMT & CONC 42,064 S.F. 46,564 S.F. (47.6%) PERVIOUS = 51,348 S.F. (52.4%)

PARKING CALCULATIONS:

GENERAL COMMERCIAL: 1 SPACE/4 FIXED SEATS

179 FIXED SEATS/4 FIXED SEATS = 45 SPACES

TOTAL PARKING REQUIRED: 45 SPACES

PARKING SPACES PROVIDED: 70 SPACES

HANDICAP PARKING REQUIRED 1 SPACE/25 SPACES = 3 H/C SPACE

HANDICAP PARKING PROVIDED:

PARCEL ID NUMBER 05-21-28-0000-00-025 FUTURE LAND USE COMMERCIAL ZONING C-2 ACREAGE/S.F. 2.25/97,912 BUILDING HEIGHT FLOOR AREA RATIO 4,500/97,912 = 0.046 PROPOSED FRONT: 80 FT SIDE: 79 FT REAR: 29 FT REQUIRED FRONT: 10 FT SDE: 10 FT REAR: 10 FT PROVIDED: 70 REQUIRED: 45 (1 SPACE / 4 FIXED SEATS) TREE BANK MITIGATION FEE N/A WAVER REQUEST NO VARIANCE REQUEST NO

DRAINAGE CERTIFICATION:

THE REQUIRED DRAINAGE PATTERNS AND STORAGE CAPACITY OF THE RETENTION AREAS ARE NOT ADVERSELY AFFECTED BY THE ADDITIONAL USE OF LAND WITHIN THE BUFFER YARDS.

STATEMENT OF INTENDED USE:

THIS PROJECT CONSISTS OF CONSTRUCTING A 4,500 S.F. RESTAURANT BUILDING WITH PAYED PARKING AND DRIVEWAY ACCESS TO US 441.

NOTICE! IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THE MOST CURRENT APPROVED PLANS PRIOR TO CONSTRUCTION.



WALLACE L BRINKMAN III



GERS ENGINEERING

Engineering & Land Surveying

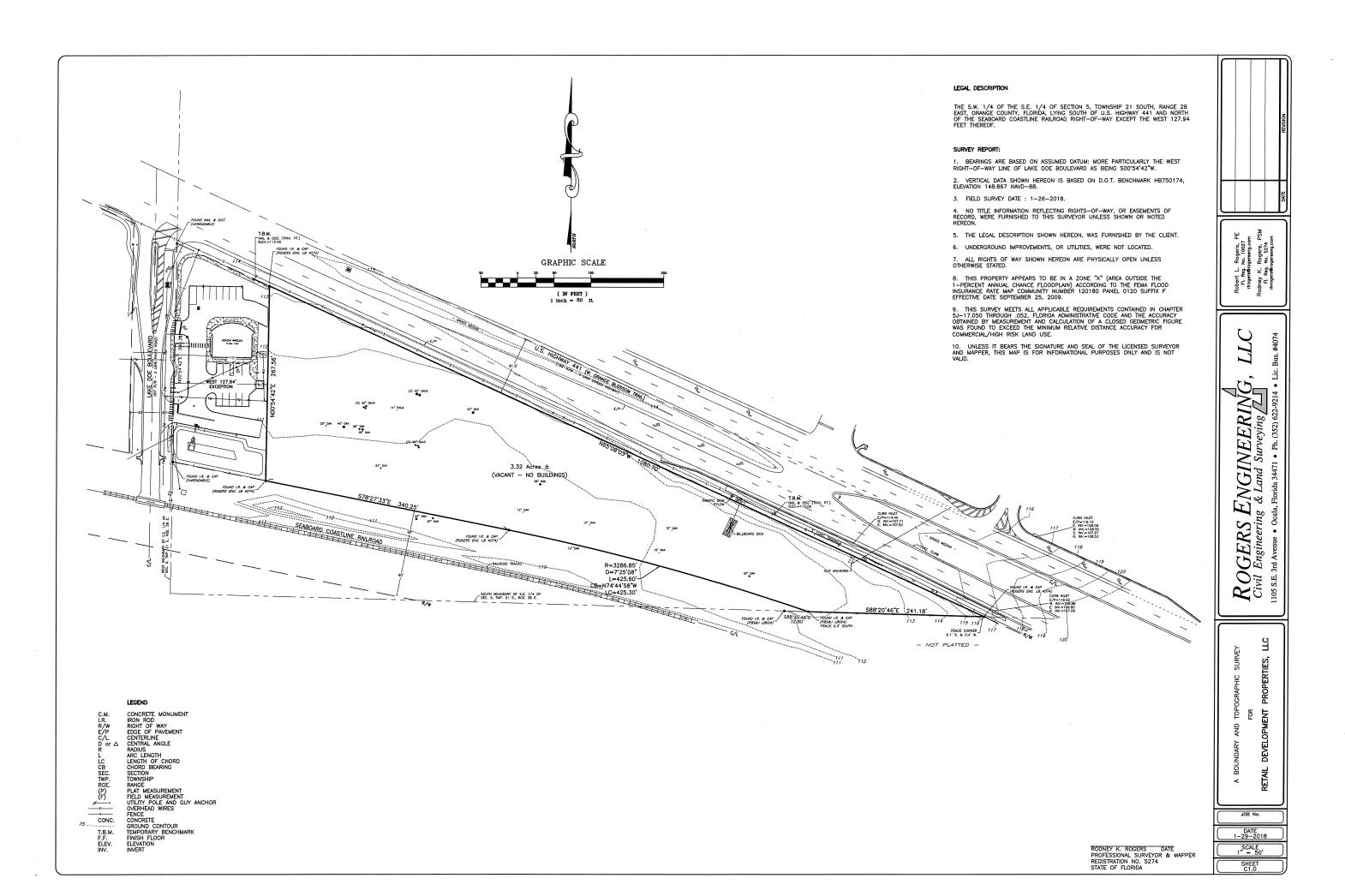
3rd Avenue • Ocala, Florida 3471 • Ph. (352) 622-9214

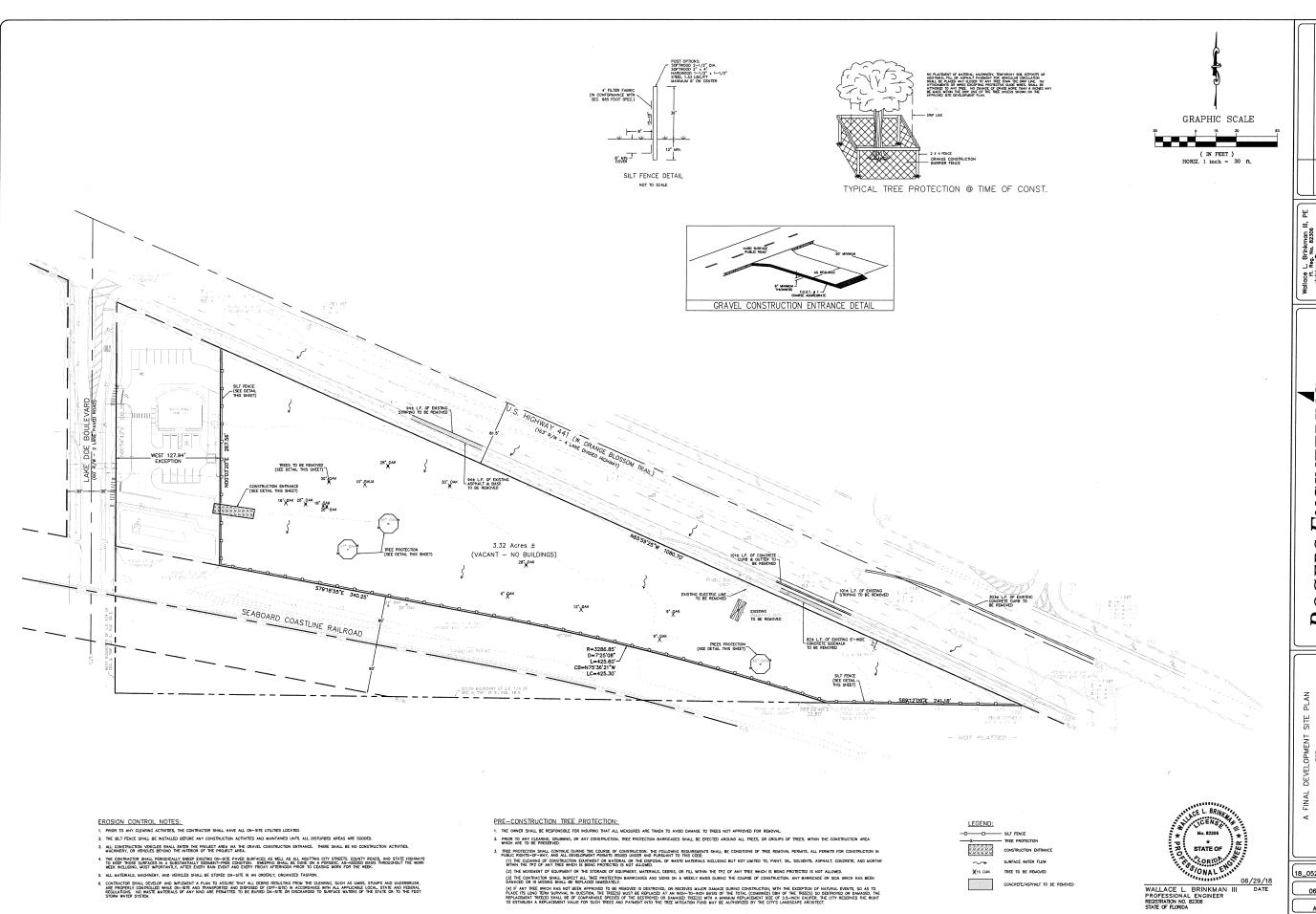
ROGERS I Civil Engineering

DEVELOPMENT S
FOR
IHOP
Y OF APOPKA, FLO

JOB No. 18_052128000000025 DATE 06-29-2018 SCALE AS SHOWN

SHEET CO.O





TC

ROGERS ENGINEERING
Civil Engineering & Land Surveying

A FINAL DEVELOPMENT SITE PLAN
FOR
HOP
CITY OF APOPKA, FLORIDA
osion Control & Tree Removal Plan

JOB No. 18_052128000000025 DATE 06-29-2018 SCALE AS SHOWN

SHEET C2.0

I. SITE DESCRIPTION:

(1) NATURE OF CONSTRUCTION ACTIVITY:

THIS PROJECT INCLUDES CONSTRUCTION OF A BERM AND SWALE WITHIN AUTOZONE/IHOP PROJECT LIMITS.

- EARLY OF MANON SOLI USINDHING ACTIVITIES:

 (G) THE CONTRACTOR SHALL BE REQUIRED TO PREPARE A SITE SPECIFIC EROSION CONTROL PLAN ALONG WITH A DETAILED CONSTRUCTION SCHEDULE TO INDICATE DATES OF MAJOR GRADING ACTIVITIES AND DETERMINE SEQUENCES OF TEMPORARY AND PERMANENT SOIL DISTRIBUTING ACTIVITIES AND DETERMINE SEQUENCES OF THE ORDIT AND THE ORDIT OF THE
- c) APPLICABLE EROSION CONTROL DEVICES AND IMPLEMENTATION PROCEDURES ARE SUPPLIED IN THE FDOT EROSION AND SEDIMENT CONTROL MANUAL
- (c) THE ENGINEER IS RESPONSIBLE FOR DETERMINING IF ANY MODIFICATIONS OR ADDITIONAL CONTROLS ARE REQUIRED AND TO OBTAIN DEPLOYMENT SCHEDULES FOR THE IMPLEMENTATION OF ALL ADDITIONAL EROSION CONTROL DEVICES FROM THE CONTRACTOR.

- (a) ALL EROSION AND SEDIMENT CONTROL DEVICES FOR EACH PHASE OF WORK ARE TO BE INSTALLED PRIOR TO BEGINNING WORK ON THAT PHASE
- (b) INSTALL EROSION AND SEDIMENT CONTROL DEVICES WHERE LISTED IN THE CONTRACTOR'S APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR PERIMETER CONTROLS BEFORE THE LAND IS DISTURBED.
- (c) PROVIDE SEDIMENT BARRIERS WHERE LISTED IN THE CONTRACTOR'S APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR DITCH BLOCKS DURING CONSTRUCTION

- (4) PROVIDE INLET PROTECTION SYSTEMS AT INLET OPENINGS.

 (e) COVER OR STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE.

 (f) DO NOT DISTURBE AN AREA LUTILL IT IS NECESSARY FOR CONSTRUCTION TO PROCEED.

 (g) TIME CONSTRUCTION ACTIVITIES TO LIMIT IMPACT FROM SEASONAL CLIMATE CHANGES OR WEATHER EVENTS.
- (h) DO NOT REMOVE PERIMETER CONTROLS UNTIL AFTER ALL UPSTREAM AREAS ARE FULLY STABILIZED AND PERMANENT VEGETATION IS ESTABLISHED.

(4) PROJECT AREAS:
THE ESTIMATED TOTAL PROJECT AREA IS 3.32 ACRES.

(5) RUNOFF COEFFICIENTS BEFORE Cw(B), DURING Cw(D) AND AFTER Cw(A) CONSTRUCTION: RUNOFF COEFFICIENT FOR: GRASSED SHOULDERS ADJACENT TO ROADWAY: C=0.20 MPERNOUS ROADWAYS AND PAVED SHOULDER: C=0.95

WEIGHTED RONOF CUEFFICIENT:
BEFORE: CW(B)=0.44 DURING: CW(O)=0.59 AFTER: CW(A)=0.59
THE RUNOFF COEFFICIENT DURING CONSTRUCTION, CW(D), IS CALCULATED ASSUMING THAT THE MAXIMUM ALLOWABLE AREA OF SOIL IS DISTURBED DURING CONSTRUCTION, AND THE REMAINING AMOUNT IS THE EXISTING IMPERVIOUS AND GRASSED SHOULDER AREAS.

(6) DESCRIPTION OF SOIL OR QUALITY OF DISCHARCE:
THE SOIL SURVEY INDICATES THAT THE MAJORITY OF THE SURFICIAL SOILS LOCATED ALONG ONSITE ARE PREDOMINANTLY SAND.

NRCS SOILS DATA FOR ORANGE COUNTY IS PROVIDED IN THE DRAINAGE DOCUMENTATION. MORE DETAILED INFORMATION REGARDING GENERALIZED SOIL INFORMATION IS PROVIDED IN THE DRAINAGE

(7) ESTIMATED DRAINAGE AREA AND AVERAGE SLOPE OF DRAINAGE AREA FOR EACH OUTFALLS

(a) SITE MAP: THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAP (b) DRAINAGE MAP: PLEASE REFER TO DRAINAGE REPORT.

(8) RECEIVING WATERS:

THE PROPOSED STORMWATER RUNOFF WITHIN WILL BE FULLY RETAINED ON—SITE WITH NO DISCHARGE.

(9) THE OUTFALLS DRAIN INTO WBID 1329E (VERIFIED IMPAIRED) FOR MERCURY IN FISH PER FDEP 303(d) LIST.

DESCRIPTION (a) N/A N/A

NO WETLAND IMPACTS ARE PROPOSED.

DESCRIPTION OF STORMWATER MANAGEMENT: (EXISTING/PROPOSED) (12)

OUTFALL LOCATIONS: (TEMPORARY AND PERMANENT)

(a) EXISTING, STORMWATER PRIMARILY INPLITATES INTO THE EXISTING SANDY SOILS, WITH DISCHARGE TO THE ADJACENT RAILROAD RIGHT-OF-WAY.

(b) PROPOSED STORMWATER RUNOFF WILL BE RETAINED IN ON-SITE DRY RETENTION PONDS WITH NO OFF-SITE DISCHARGE.

(10)

(11)

(1) WATER QUALITY MONITORING:

(a) WATER QUALITY MONITORING SHALL BE CONDUCTED IN ACCORDANCE WITH THE SPECIAL CONDITIONS OF ALL ENVIRONMENTAL PERMITS OR BY THE CONTRACTOR UPON THE OBSERVATION THAT WATER QUALITY STANDARDS MAY BE VIOLATED BY THE CONTRACTOR'S ACTIVITIES. MONITORING LOCATIONS MAY BE SPECIFIED IN THE ENVIRONMENTAL PERMIT OR MAY BE DESIGNATED BY THE CONTRACTOR AND APPROVED BY THE PROJECT ADMINISTRATOR.

(b) THE PROJECT ADMINISTRATOR WILL BE RESPONSIBLE FOR MONITORING ANY ACTIVITIES FOR VIOLATION OF WATER QUALITY STANDARDS AS THEY RELATE TO TURBIDITY [NO GREATER THAN 29 NEPHELOMETRIC TURBIDITY UNITS (NTU) ABOVE BACKGROUND OR GREATER THAN 1 NTU ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OUTSTANDING FLORIDA WATERS (OFW)1.

(c) IF WATER QUALITY STANDARDS ARE VIOLATED, CONSTRUCTION SHOULD BE STOPPED IMMEDIATELY, THE ENVIRONMENTAL PERMIT CONDITIONS FOLLOWED AND EROSION AND SEDIMENT CONTROL DEVICES REEVALUATED AND APPROVED BY THE ENGINEER PRIOR TO ANY CONTINUATION OF ACTIVITY, MONITORING ACTIVITIES AND TURBIDITY READINGS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION REPORT AND CONTINUED UNTIL TURBIDITY READINGS FALL BELOW AN ACCEPTABLE LEVEL (29 NTU ABOVE BACKGROUND OR 1 NTU ABOVE BACKGROUND FOR DIRECT DISCHARGES TO

(d) WATER QUALITY MONITORING MAY BE CONDUCTED DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE PROJECT ENGINEER

(2) STABILIZATION PRACTICES:

(a) STABILIZATION MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO MAINTAINING, ESTABLISHING AND USING VEGETATION, APPLYING MULCHES, SODDING, SEEDING, BMP'S AND THE USE OF ROLLED EROSING CONTROLLED PRODUCTS. WHEN CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. SIDE SLOPES SHALL BE STABLIZED WITH PERFORMANCE SODDING OR SEEDING OR ANY OTHER APPROVED METHOD OF STABLIZATION INCLUDED IN THE STATE OF FLORIDA EROSON AND SEDIMENT CONTROL DESIGN AND REVIEW MANUAL (EASE MANUAL).

(b) STABILIZATION SHALL TAKE PLACE AS SOON AS PRACTICAL IN PORTIONS OF THE PROJECT WHERE CONSTRUCTION ACTIVITIES HAVE CEASED, BUT NO LATER THAN 7 DAYS AFTER ANY CONSTRUCTION ACTIVITY CEASES EITHER TEMPORARILY OR PERMANENTLY.

(c) ALL EROSION CONTROL DEVICES SHALL BE INSTALLED ACCORDING TO THE CONTRACT DOCUMENTS, AND THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN.

(d) ANY TEMPORARY MATERIAL USED FOR POLLUTION OR EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT AND FINAL

STABILIZATION OF THE PROJECT HAS BEEN ACHIEVED. (e) SEDIMENT BARRIERS SHOULD BE USED ALONG THE LENGTH OF THE PROJECT WHERE THE GROUND SLOPES AWAY FROM THE RICHT-OF-WAY OR WHERE THERE IS POTENTIAL FOR SEDIMENT TO BE DIRECTED OFF-SITE, PARTICULAR CARE SHOULD BE USED WHEN THERE ARE WETLANDS OR WATERS OF THE U.S. ARE INVOLVED. SEDIMENT BARRIERS SHOULD BE USED AROUND THE PERIMETER

(f) SPACING OF SEDIMENT BARRIERS USED AS DITCH OR SWALE CHECKS/DAMS SHOULD BE BASED UPON THE HEIGHT OF THE BARRIER AND THE SLOPE OF THE DITCH OR SWALE

(g) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFYING SOIL TRACKING PREVENTION SYSTEMS OR PROCEDURES AS NEEDED.

(3) STRUCTURAL PRACTICES FOR EROSION AND SEDIMENT CONTROL

(a) ROLLED EROSION CONTROL PRODUCTS (ARTIFICIAL COVERINGS)

PURPOSE: TO PROTECT DISTURBED SLOPE SURFACES AGAINST EROSION DUE TO RAINFALL OR FLOWING WATER.

(1) USED FOR PAUSES IN CONSTRUCTION DUE TO INCLEMENT WEATHER OR OTHER CIRCUMSTANCES. COULD INCLUDE NATURAL OR SYNTHETIC FIBER MATS, PLASTIC SHEETING OR NETS.

(2) USED FOR EROSION CONTROL THAT FACILITATES PLANT GROWTH WHILE PERMANENT GRASS IS ESTABLISHED. COULD INCLUDE BIODEGRADABLE EROSION CONTROL BLANKETS INSTALLED ON A SEEDED AREA. ON FILL SLOPES OR IN DITCHES.

(3) USED TO STABILIZE DRAINAGE CHANNELS. CONSULT E&SC MANUAL TO DETERMINE CORRECT PRODUCT TYPE FOR CHANNEL STABILIZATION.

(b) RUNOFF CONTROL STRUCTURE (TEMPORARY SLOPE DRAIN)

OF STOCKPILE AREAS.

PURPOSE: TO PROTECT HILLSIDE SURFACES AGAINST EROSION DUE TO CONCENTRATED FLOW OF RUNOFF WATER.

(1) USED ON FILL SLOPES AND CUT SLOPES TO REDUCE SEDIMENT TRANSPORT AND COULD INCLUDE TEMPORARY SLOPE DRAINS, GRASS-LINED CHANNELS, ROCK-LINED CHANNELS AND CHECK

(2) RUNOFF CONTROL STRUCTURES TYPICALLY DISCHARGE TO A SEDIMENT BASIN.

(c) SEDIMENT BASIN (CONTAINMENT SYSTEM)
PURPOSE: A CONTAINMENT SYSTEM IS DESIGNED TO DETAIN AN ADEQUATE VOLUME OF RUNOFF, REDUCE THE VELOCITY OF FLOW THROUGH THE SYSTEM, ALLOW FOR SETTLEMENT OF SUSPENDED SOLIDS
AND REGULATE THE DISCHARGE RATE FROM THE SEDIMENT BASIN.

(1) SEDIMENT BASINS MUST BE PLACED IN STRATEGIC LOCATIONS WITHIN THE ACTIVE AREAS OF CONSTRUCTION. CONTRIBUTING AREA AND SIZE OF TARGET SOIL PARTICLES WILL DICTATE WHETHER THE
SEDIMENT BASIN MUST BE TYPE 1, TYPE 2 OR TYPE 3 SYSTEM.

(2) THE USE OF SMALLER PRE-SEDIMENTATION BASINS USED IN CONJUNCTION WITH LARGER PERMANENT RETENTION/DETENTION PONDS ARE EFFECTIVE IN CAPTURING LARGER VOLUMES OF SEDIMENTS.
THIS TECHNIQUE REQUIRES PERIODICALLY SCHEDULED REMOVAL OF THE ACCUMULATED SEDIMENTS.

(d) SEDIMENT BARRIERS (TEMPORARY CONSTRUCTION SITE BMP)
PURPOSE: SEDIMENT BARRIERS EITHER OBSTRUCT FLOW OR PREVENT THE PASSAGE OF WATER WHILE CONSTRUCTION ACTIVITIES OCCUR. SMALLER SEDIMENT BARRIERS MAY FUNCTION AS A SMALL
SEDIMENT CONTINUENT SYSTEM OR AS A METHOD TO REDUCE FLOW VELOCITY.

(1) THESE CONSTRUCTION BMP CAN INCLUDE SYNTHETIC BALES, STAKED SILT FENCE, TURBIDITY BARRIERS, STORN SEWER INLET BARRIERS, ROCK BARRIERS, GEC.
(2) APPROPRIATE LOCATIONS INCLUDE STEET PERMIETER, BELOW DISTURBED AREAS SUBJECT TO SHEET AND BELOW THE TOE OF EXPOSED AND PERDOBLE SLOPES. ALONG THE TOE OF
STREAM AND CHANNEL BANKS, AROUND DRAINS AND INLETS LOCATED IN LOWPOINTS OR THE DOWNSTREAM EDGE OF AREAS UNDERGOING VERTICAL OR BOX CILLVERT CONSTRUCTION ACTIVITIES.
(3) INAPPROPRIATE LOCATIONS FOR THESE SAME MEASURES INCLUDE PRANALEI. TO A HILLSIDE CONTINUE OF MICH CONCENTRATED FLOW, UNLESS PROPERLY REINFORCED), UPSTREAM OR
DOWNSTREAM OF CULLVERTS WITH CONCENTRATED FLOW, IN FRONT OF OR AROUND INLETS ON A GRADE WITH CONCENTRATED FLOW OR IN FLOWING STREAMS.

(e) FLOATING TURBIDITY BARRIER
PURPOSE: USED IN PERMANENT BODIES OF WATER TO RETAIN SEDIMENT AND FLOATING DEBRIS FROM A CONSTRUCTION AREA SO THAT REMOVAL OR CONTAINMENT OF THE MATERIAL IS POSSIBLE.
(1) TYPE, IL IGHT) DUTY, IS USED WHITE THERE IS LITTLE OR NO CURRENT, NO WIND AND NO WAVE ACTION.
(2) TYPE II, MODERATE DUTY, IS USED WITH SOME CURRENT (2.5.5 FT. PER SECOND) AND SOME EXPOSURE TO WIND.
(3) TYPE III, HEAVY DUTY, IS USED WITH GREATER CURRENT (3.5.5 OFT. PER SECOND), MODERATE WIND AND WAVE ACTION.
(4) BARRIER MUST BE ATTACHED AT BOTH ENDS AND WEIGHTED ON THE BOTTOM.
(5) MULTIPLE LINES OF BARRIER MAY BE USED IN SOME CIRCUMSTANCES FOR ADDITIONAL PROTECTION.
(6) STANDARD PANELS FOR WATER DEPTHS ARE 5.0'. ADDITIONAL PANELS CAN BE USED FOR WATER DEPTHS > 5.0'.

(1) STAKED TURBIDITY BARRIER
PURPOSE: THIS ITEM IS COMMONLY USED IN AREAS WHERE CONTINUOUS CONSTRUCTION ACTIVITIES CHANGE THE NATURAL CONTOURS AND DRAINAGE RUNOFF PATTERNS.
(1) COMMONLY USED IN LAKES AND STREAMS AS A SEDIMENT CONTAINMENT SYSTEM. SHOULD NOT BE USED WHERE WATER CURRENTS MOVE THE CURTAIN AND DISLOGGE COLLECTED SEDIMENTS.

(2) MAXIMUM DEPTH OF PANEL IS 3'-8'.

(3) POST MUST BE A MINIMUM LENGTH OF 5.0' AND A MINIMUM OF 10" OF FABRIC MUST BE IMBEDDED IN THE GROUND.

(g) INLET PROTECTION SYSTEM
PURPOSE: ANY OF A NUMBER OF SEDIMENT BARRIERS THAT EITHER PREVENT SEDIMENT FROM ENTERING AN INLET OR TRAP THE SEDIMENTS ONCE THEY ENTER THE INLET.

(1) TYPICAL APPLICATIONS INCLUDE ROCK BARRIERS, FRAME AND FILTER BARRIERS, CURB INLET "SSUMP" BARRIER, CURB INLET DIVERSION BERM, CURB AND GUTTER SEDIMENT CONTAINMENT SYSTEM OR CURB INLET INSET.

CURB MILE! INSEL.

(2) SHOULD BE INSTALLED ONLY WHEN CONSTRUCTION ACTIVITIES ARE ON-GOING AND ONLY WHERE SUMP CONDITIONS EXIST.

(3) SHOULD NOT BE USED WHEN CONSTRUCTION IS COMPLETE AND SHOULD NOT BE USED IN AREAS WHERE FLOODING COULD ENCROACH INTO THE TRAVEL LANES.

(h) SOIL TRACKING PREVENTION DEVICE PURPOSE: TEMPORARY STRUCTURES TO ASSIST WITH THE REMOVAL OF SOIL MATERIAL CAPTURED ON VEHICLE TIRES BEFORE THE VEHICLES ENTER THE ROADWAY.

(1) USE OND EDVICE PER MILE WITH A MINIMUM OF TWO PER PROJECT.

(2) USE ADDITIONAL DEVICES FOR CONSTRUCTION AREAS THAT ARE NOT ADJACENT TO THE ROAD RIGHT-OF-WAY AND NO ACCESS IS PROVIDED THROUGH A SOIL TRACKING PREVENTION DEVICE.

(3) RIR PROJECTS SHOULD BE HANDLED ON A CASE BASIS.

(4) CHEMICAL TREATMENTS FOR EROSION AND SEDIMENT CONTROL:
(a) CHEMICAL TREATMENT—POLYACRYLAMIDES (PAM AND PAM BLEIDIS)
PURPOSE: REDUCE SOIL EROSION THROUGH SOIL BINDING, USED AS A WATER TREATMENT ADDITIVE TO REMOVE SUSPENDED SOLIDS FROM RUNOFF, PROVIDES APPROPRIATE MEDIUM FOR GROWTH OF WEGETATION FOR STABILIZATION AND INCREASES INFILTRATION BY INCREASING SIZE OF SOIL PARTICLE.

(1) CAN BE USED ON DISTURBED SOILS. CAN BE USED IN CONJUNCTION WITH OTHER BMP'S TO ENHANCE PERFORMANCE. CAN BE APPLIED IN DISSOLVED FORM WITH WATER, CAN BE USED AS A DRY POWDER, CAN BE USED IN GRANULAR FORM OR MAY BE USED IN THE FORM OF FLOC LOSS.

(2) HIGHER CONCENTRATIONS OF PAM'S DON'T INCREASE THE EFFECTIVENESS OF THE PRODUCT.
(3) ACTIVELY WORKED AREAS WILL REQUIRE REAPPLICATION TO REMAIN EFFECTIVE.

(4) PAM SHOULD NOT BE USED WHERE THERE IS A POTENTIAL FOR EQUIPMENT CLOGGING OR TOXICITY IS A CONCERN.

(b) CHEMICAL TREATMENT - ALLUM:
PURPOSE: REMOVE SUSPENDED SOLDS AND POLLUTANTS BY ENMESHMENT AND ABSORPTION INTO ALUM. COLLECT FLOCS OF SUSPENDED SEDIMENTS IN RUNOFF AND STORE THEM IN SEDIMENT BASINS OR STORMMATER MANAGEMENT FACILITIES.

(1) ALUM IS INJECTED INTO THE FLOW STREAM CONTRINING TURBID WATER INJECTION IS CONTROLLED BY VARIABLE SPEED CHEMICAL PUMP TO FEED ALUM AT MULTIPLE TREATMENT POINTS. ALUM TREATMENT OF REPORT OF THAT CONTAINS LIMEROCK FROM UNPAYED SURFACES.

(2) ALUM TREATMENT REQUIRES CLOSE MONITORING OF DOSAGE. COMBINATION WITH OTHER COMPOUNDS MAY WOLATE TOXICITY REQUIREMENTS AND THE USE OF ALUM MAY LOWER PH LEVELS.

(5) DEWATERING OPERATIONS (OPTIONAL — BASED ON PROJECT APPLICABILITY):

DESCRIPTION: DEWATERING OPERATIONS ARE PRACTICES THAT MANAGE THE DISCHARGE OF TURBID WATER WHEN WATERS OTHER THAN STORMWATER AND ACCUMULATED SURFACE WATERS MUST BE REMOVED FROM A LOCATION SO THAT CONSTRUCTION WORK MAY BE ACCOMPLISHED. THESE WATERS CAN INCLUDE GROUNDWATER, WATER FROM COFFERDAMS, WATER DIVERSIONS AND WATERS USED DURING CONSTRUCTION THAT MUST BE REMOVED FROM A WORK AREA.

(a) ENVIRONMENTAL AGENCIES ARE ESPECIALLY CONCERNED WITH THE PROTECTION OF WETLANDS FROM DRAWDOWN EFFECTS, PROTECTING RECEIVING BODIES FROM SEDIMENTATION AND POSSIBLE CAPACITY LUMITATIONS.

CAPACITY LIMITATIONS.

(b) THERE PRIMARY METHODS OF DEWATERING COMMONLY USED IN FLORIDA ARE RIM-DITCHING, SOCK/PIPE/HORIZONTAL WELLS AND WELL-POINT SYSTEMS.

(c) METHODS FOR CONTAINING SEDIMENTATION CAN INCLUDE A COMBINATION OF BMP AND SEDIMENT TRAPS, SEDIMENT BASINS, GRAVITY BAG FILTERS, WEIR TANKS, DEWATERING TANKS, SAND MEDIA/PRESSURAZED BAGS AND CHEMICAL TREATMENTS.

(6) COASTAL OPERATIONS (OPTIONAL - BASED UPON PROJECT LOCATION):

COSSTRICTIONS OFFICIAL E- ASSECT OFFICIAL PROSECT LOCATION):

DESCRIPTION: CONSTRUCTION SITES IN COASTAL AREAS PRESENT UNIQUE CHALLENGES DUE TO HIGHER WIND SPEEDS, SALINE LADEN AIR MOISTURE AND WAVE ACTION THAT REQUIRE USING APPROPRIATE EROSION CONTROL. TECHNIQUES THAT CAN WITHSTAND THESE ELEMENTS.

(a) PARTICULAR CONCERNS DURING THE DEVELOPMENT OF EROSION CONTROL PLANS IN COASTAL OPERATIONS CAN INCLUDE THE RESITANCE OF EROSION CONTROL MATERIALS TO SALT WATER, HIGH WATER TABLES, SOIL COMPACTION AND SITE DEVELOPMENT OF TYPICAL SANDY SOILS LOCATED IN THESE AREAS AND SOIL STABILIZING VEGETATION MUST BE SALT TOLERANT.

(b) HIGH ENERGY ENVIRONMENT SHOULD BE CONSIDERED WHEN SELECTING CONTROL DEVICES. FREQUENT MAINTENANCE IS NORMALLY REQUIRED FOR EROSION CONTROL DEVICES AND TIDAL FLUCTUATIONS MUST BE CONSIDERED WHEN SELECTING THE METHODS OF EROSION CONTROL.

MUST BE CONSIDERED WHEN SELECTING THE METHODS OF EROSION CONTROL.

(c) TEMPORARY CONTROL TECHNOLOGIES FOR THE COASTAL ENVIRONMENT COULD INCLUDE THE USE OF COMPOST/WOOD MULCHING, HYDRAULIC MULCHING, SOIL BINDERS AND TEMPORARY HYDROSEEDING.

(d) PERMANENT CONTROLS COULD INCLIDE THE USE OF POLYMER-ENHANCED ARMORING, PRESERVING EXISTING VEGETATION WHEN POSSIBLE, ESTABUSHING PERMANENT SALT—TOLERANT VEGETATION,
CONSTRUCTION SITE BARRIERS (SHEET PILES/CONCRETE WALLS/EARTHERN BERMS), NATURAL/SYNTHETIC GEOTEXTILES, MATS, OR GEOGRIDS.

III. OTHER CONTROLS:

(1) WASTE DISPOSAL

WAS IN DISPOSAL!

(a) THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION ACTIVITIES.

(b) ALL FERTILIZER AND CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.

(c) NO SOLID MATERIALS, INCLUDING BUILDING AND CONSTRUCTION MATERIALS, SHALL BE DISCHARGED TO WETLANDS OR BURIED ON—SITE.

(d) ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS BY A LICENSED SANITARY WASTE WANAGEMENT CONTRACTOR AS REQUIRED BY STATE REGULATIONS.

(2) OFF-SITE VEHICLE TRACKING - WILL BE CONTROLLED BY THE FOLLOWING METHODS:

(a) LOADED HAUL TRUCKS ARE TO BE COVERED BY A TARPAULIN AT ALL TIMES.
(b) EXCESS DIRT ON ROAD WILL BE REMOVED DAILY.

(3) STATE AND LOCAL REGULATIONS: PERMITS WILL BE REQUIRED FROM THE FOLLOWING AGENCIES

(4) NON-STORMWATER (INCLUDING SPILL REPORTING)
THE CONTRACTOR WILL PROVIDE THE ENGINEER WITH AN EROSION CONTROL PLAN THAT WILL INCLUDE SPILL CONTAINMENT, REPORTING, AND RESPONSES. THE PLAN SHALL SPECIFY WHAT
MANAGEMENT PRACTICES AND CONTAINMENT METHODS WILL BE USED TO PREVENT POTENTIAL POLLUTANTS (FUEL LUBRICANTS, HERBICIDES, ETC.) FROM SPILLING ONTO THE SOIL OR INTO THE
SURFACE WATERS. IF A SPILL DOES OCCUR, OR IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, CONTACT THE DISTRICT CONTAMINATION IMPACT COORDINATOR.

IV. MAINTENANCE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIRS OF ALL EROSION AND SEDIMENT CONTROL DEVICES WHEN NOTICE OF TERMINATION IS MAILED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND PROPER DISPOSAL OF SEDIMENT BUILDUP THROUGH THE LIFE OF THE INSTALLED EROSION, AND SEDIMENT CONTROL

(1) ALL CONTROL MEASURES WILL BE MAINTAINED DAILY BY THE CONTRACTOR AND ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED MANAGEMENT OF THE NECESSARY OF THE WORLD CONTRACTOR AND ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED

IMMEDIATELT.

(2) SODDING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

(3) SYNTHETIC BALES SHALL BE MAINTAINED TO ENSURE THEIR USEFULNESS AND NOT BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.

(4) STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED TO PREVENT CLOGGING OF ROCK BEDDING WHICH MAY IMPEDE THE USEFULNESS OF THE STRUCTURE.

(1) THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD WEEKLY RAINFALL IN ACCORDANCE WITH THE NPDES PERMIT. ALL EROSION CONTROL DEVICES MUST BE INSPECTED WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.5 INCHES OR GREATER.

(2) ALL EROSION AND WATER POLLUTION ABATEMENT AND CONTROL MEASURES WILL BE INSPECTED DAILY BY CONTRACTOR'S PERSONNEL WHO ARE F.D.E.P. CERTIFIED STORMWATER MANAGEMENT INSPECTORS.

(3) THE CONTRACTOR SHALL COMPLETE ALL SWPPP INSPECTION REPORT FORMS REQUIRED FOR THE NPDES PERMIT.

(1) THE CONTRACTOR SHALL SUBMIT A WEEKLY REPORT TO THE DEPARTMENT DOCUMENTING THE DAILY INSPECTIONS AND MAINTENANCE OR REPAIRS TO THE SEDIMENT CONTRACTOR SHALL MAINTAIN ALL REQUIRED REPORTS AND COMPLETE ALL SWEPP INSPECTION FORMS. (2) PREPARATION OF ALL THE CONTRACTOR'S REPORTS OF INSPECTION, MAINTENANCE AND REPAIRS REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION, SHALL BE INCLUDED IN THE INDIVIDUAL COSTS OF THE EROSION CONTROL DEVICES OF THE PROJECT.

(3) THE CONTRACTOR SHALL USE THE SWPPP CONSTRUCTION INSPECTION REPORT FORM #650-040-03, FOR DAILY INSPECTIONS.



WALLACE L. BRINKMAN III
PROFESSIONAL ENGINEER
REGISTRATION NO. 82306
STATE OF FLORIDA

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Milloce L. Brinkman III, PE R. Rey No. 82308 werhinansdrogereng.com Rodney K. Rogers, PSM rivogereforgereng.com Robert L. Rogers, PE R. Rey No. 1027 rivogereforgereng.com

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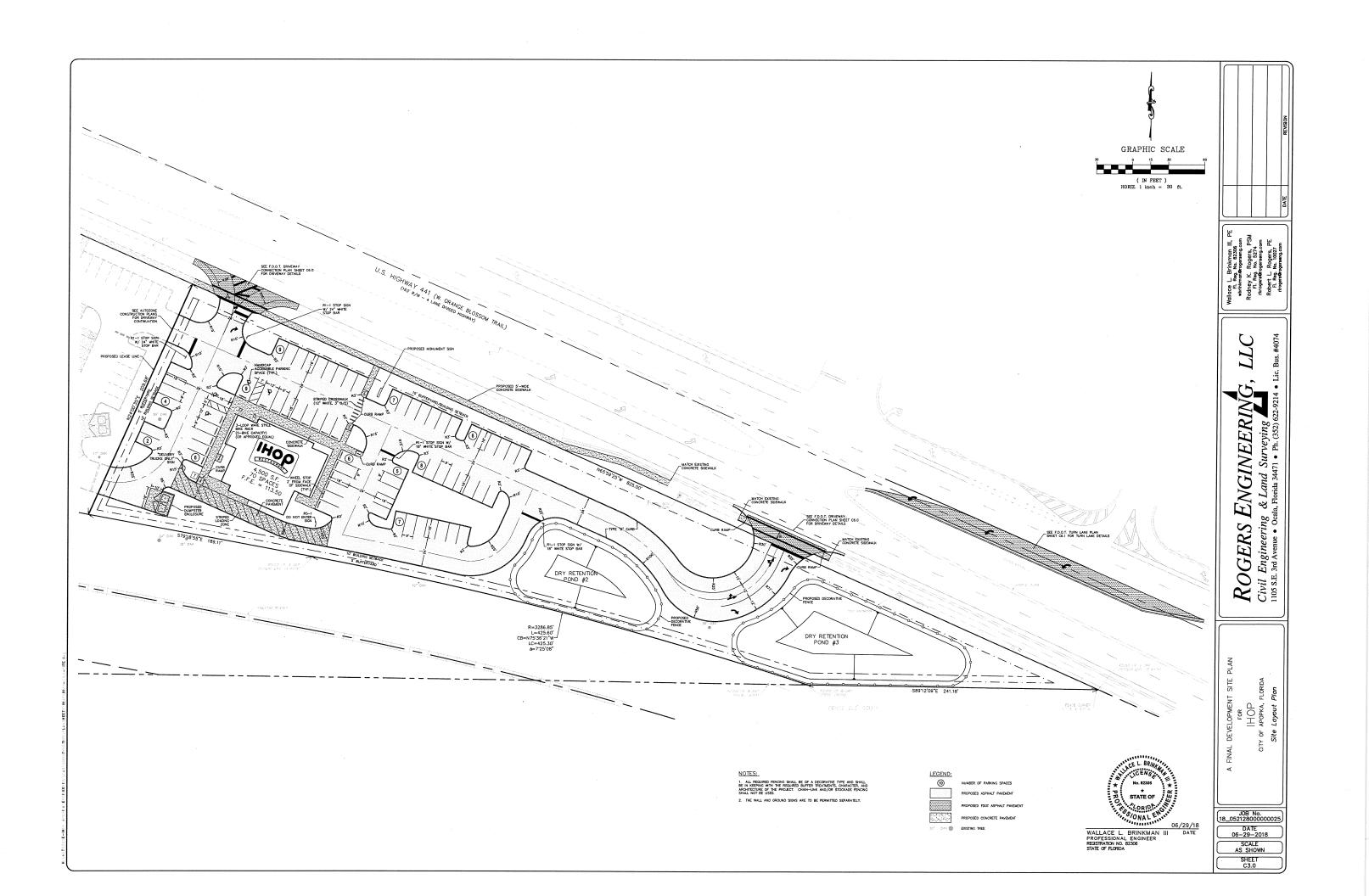
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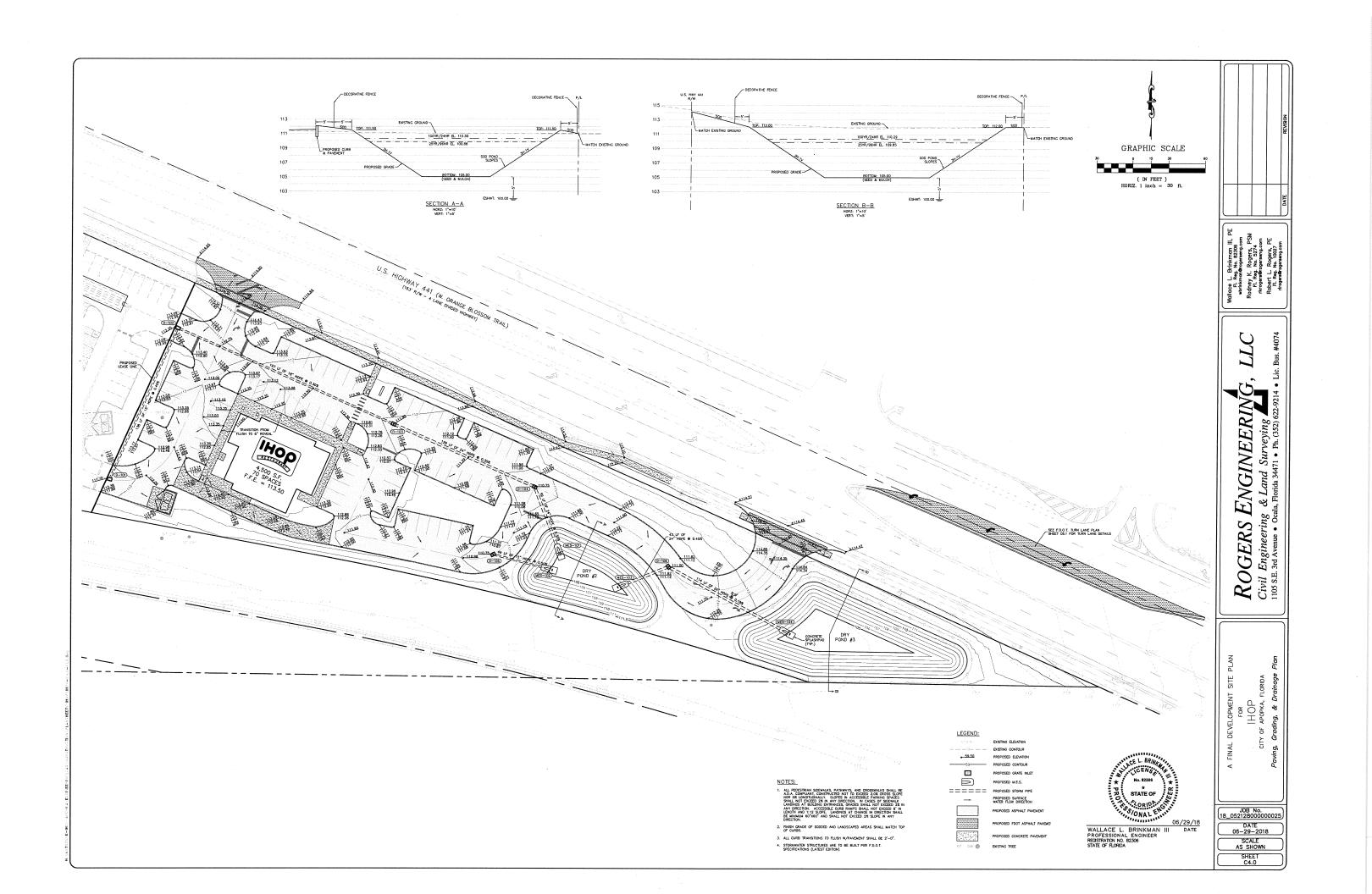
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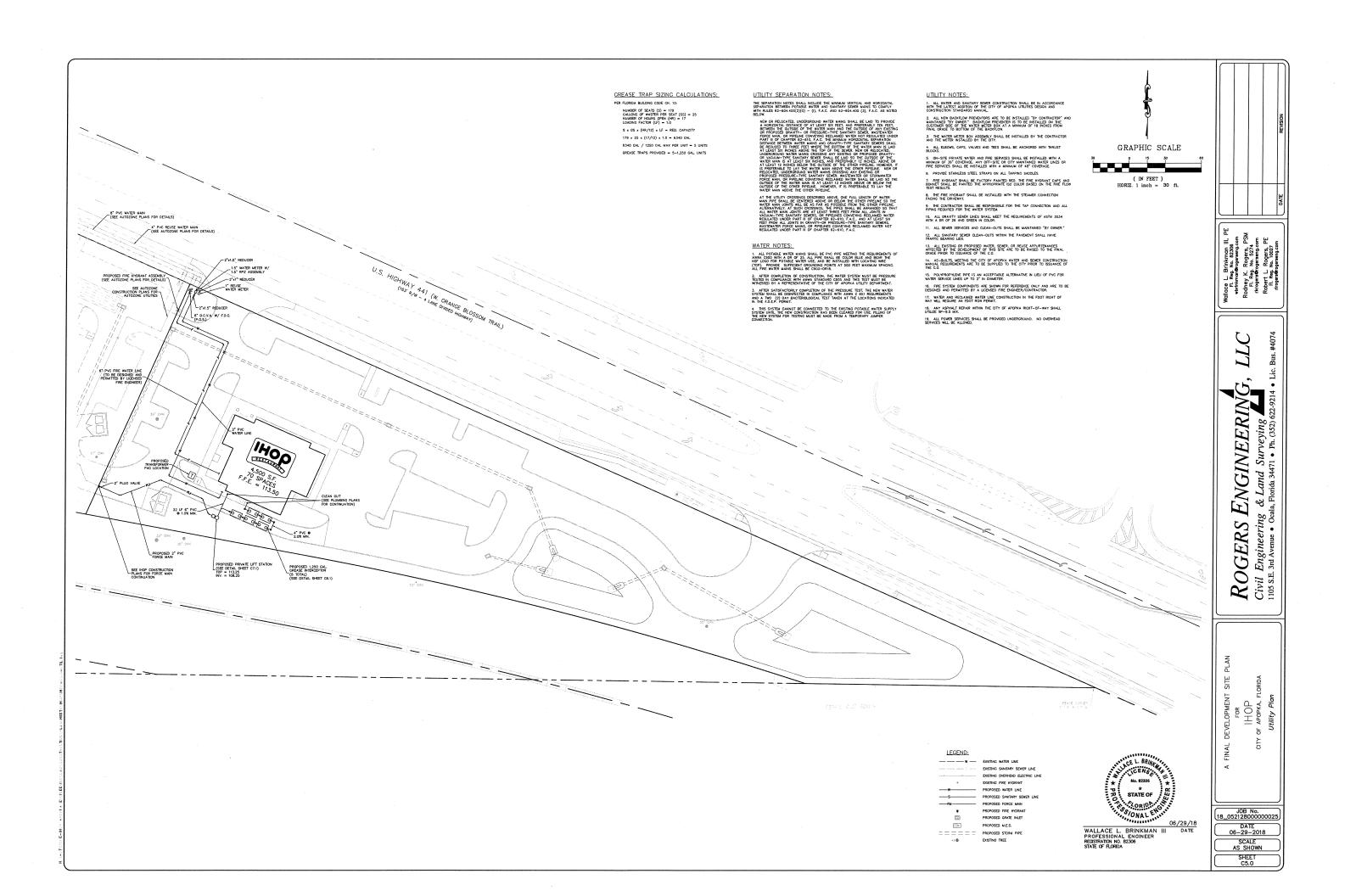
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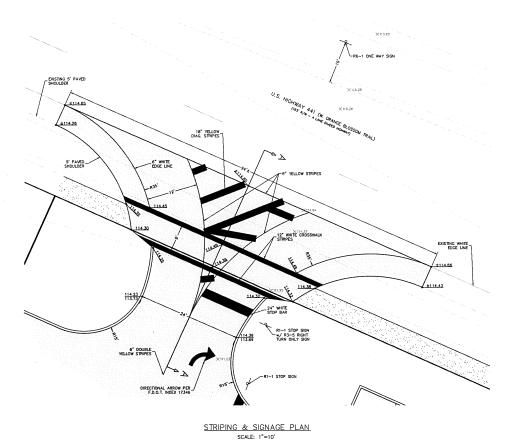
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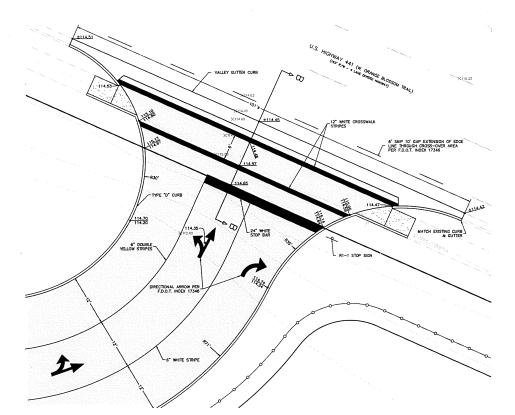
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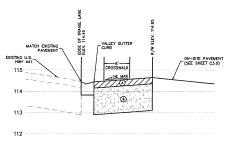


STRIPING & SIGNAGE PLAN
SCALE: 1"=10"

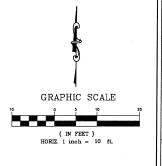
SECTION A-A HORZ: 1"=10' VERT: 1"=2'

MATERIAL REQUIREMENTS:

- 3.5" TRAFFIC LEVEL C SUPERPAVE ASPHALT



SECTION B-B HORZ: 1"=10' VERT: 1"=2'



F.D.O.T. CONSTRUCTION NOTES:

- 1. ALL DISTURBED AREAS WITHIN THE FLORIDA DEPARTMENT OF TRANSPORTATION'S RIGHT—OF—WAY SHALL BE GRADED AND SODDED WITH ARGENTINA BAHIA.
- 2. THERE SHALL BE NO LANE CLOSURES BETWEEN 7:00 AM 9:00 PM..
- 3. ALL CONSTRUCTION WITHIN THE DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE LATEST DESIGN STANDARDS, THE LATEST ADDITION OF THE SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE LATEST ADDITION OF THE UTILITY ACCOMMODATION MANUAL (DAM).
- 4. THERE SHALL BE NO DEVIATIONS FROM THIS PLAN UNLESS APPROVED BY THE PROJECT ENGINEER AND CONCURRENCE RECEIVED FROM THE DEPARTMENT OF TRANSPORTATION.
- 5. THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY LOCATED BY THEIR RESPECTIVE OWNERS PRIOR TO CONSTRUCTION. CALL SUNSHINE ONE CALL (811) FOR LOCATES, NOTE: SUNSHINE DOES NOT LOCATE TRAFFIE SIGNAL LODPS.
- ALL STRIPING PLACED WITHIN THE DEPARTMENTS RIGHT—OF—WAY SHALL BE LEAD FREE THERMOPLASTIC AND IN ACCORDANCE WITH INDEX STANDARD 17346 INCLUDING 24" STOP BARS, DOUBLE YELLOW STRIPING, AND 18" DIAGONAL STRIPES.
- 7. WORK ZONE TRAFFIC CONTROL IN ACCORDANCE WITH INDEX 613 OF THE FLORIDA DEPARTMENT OF ... HOWR ZUME, HARPIC CUNINGL, IN ACCORDANCE WITH INDEX 613 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION'S STANDARDS SHALL BE RINSTALLED PRIOR TO CONSTRUCTION AND MAINTAINED THROUGHOUT CONSTRUCTION. THE MOT MUST BE INSTALLED AND MAINTAINED BY PERSONNEL CERTIFIED IN MOT.
- 8. NO EXISTING STRIPPING OR PAVEMENT MARKINGS SHALL BE DISTURBED DURING CONSTRUCTION.
- 9. ALL STOP SIGN INSTALLATIONS SHALL BE 30 INCHES AND FABRICATED USING, AT A MINIMUM, 3M DIAMOND GRADE VIP REFLECTIVE SHEETING (SEE STOP SIGN SPECIFICATIONS SHOWN HEREON).
- 11. SIGHT LINES SHOWN HEREON ARE IN ACCORDANCE WITH FDOT INDEX 546, BASED ON THE 50 MPH DESIGN SPEED ON U.S. HIGHWAY 441.
- 12. THE EXISTING SIDEWALK AND CURB SHALL BE REMOVED TO THE NEAREST CONSTRUCTION JOINT BEYOND THE PROPOSED CONSTRUCTION LIMITS.
- 13. CONTACT F.D.O.T. SIX (6) BUSINESS DAYS PRIOR TO CONSTRUCTION FOR PRE-CONSTRUCTION MEETING.
- 14. IF THE DEPARTMENT DETERMINES THAT AS-BUILT CONDITIONS VARY SIGNIFICANTLY FROM THE APPROVED PLANS, THE PERMITTEE SHALL PROVIDE AS-BUILT PLANS, ALONG WITH A RECORD DRAWINGS REPORT BY THE PERMITTEE'S ENGINEER, FORM 850-040-19, WITHIN 30 DAYS OF COMPLETING CONSTRUCTION.
- 15. IT WILL BE THE RESPONSIBILITY OF THE PERMITTEE TO REPAIR ANY DAMAGED FDOT FACILITIES CAUSED BY CONSTRUCTION OF THE PROJECT.
- 16. TEST RESULTS OF ANY TESTS TAKEN FOR OR DURING CONSTRUCTION OF THE PERMITTED WORK SHALL BE PROVIDED TO THE FDOT UPON REQUEST.
- 17. ALL CONCRETE TO BE REMOVED SHALL BE SAW CUT AT THE NEAREST JOINT IN GOOD CONDITION, SO AS TO PRODUCE A CONNECTION WITH NEW CONCRETE THAT IS FREE OF CRACKS, DEFORMITY IN SHAPE, NOTICEABLE VOIDS, SUPRACE IRRECULARIES AND OTHER DEFEOTS. CONCRETE GUTTER CURB SHALL BE SAW CUT BETWEEN THE ASPHALT AND GUTTER CURB BEFORE REMOVAL.
- 18. ALL MATERIALS INSTALLED WITHIN THE FDOT RIGHT-OF-WAY SHALL BE LIMITED TO THOSE ON THE FDOT'S QUALIFIED PRODUCTS LIST OR APPROVED PRODUCT LIST OF TRAFFIC CONTROL SIGNALS AND DEVICES.

F.D.O.T. SIGN POST SPECIFICATIONS:

HEIGHT TO BTM. OF SIGN = 7'-0" SIGN POST SIZE STOP & RIGHT TURN ONLY = $3 \ 1/2$ " DIA x 3/16" ONE-WAY = 2" DIA x 1/8" SIGN POST TYPE = ROUND POST, ALUMINUM DRIVEN DEPTH = 4-1/2" WITH SOIL PLATE

ALL SIGN MATERIAL AND INSTALLATION SPECIFICATIONS SHALL CONFORM WITH INDEX 11860 AND 11865.

F.D.O.T. SIGN SPECIFICATIONS:

STOP SIGN TYPE = R1-1 SIZE = 30" x 30" INDEX 11860 RIGHT TURN ONLY SIGN TYPE = R3-5 SIZE = 30" x 36" INDEX 11860 ONE WAY SIGN TYPE = R6-1 SIZE = 12" x 36" INDEX = 11860

SITE

Wollace L. Brinkman III. PE F. Reg. No. 82306 whitmandogareng-com Rodney K. Rogers, PSM fr. Reg. No. 5274 fr. Operational Communication Robert L. Rogers, PE R. Reg. No. 1022, PE fr. Reg. No. 1022, PE frogerational Communication

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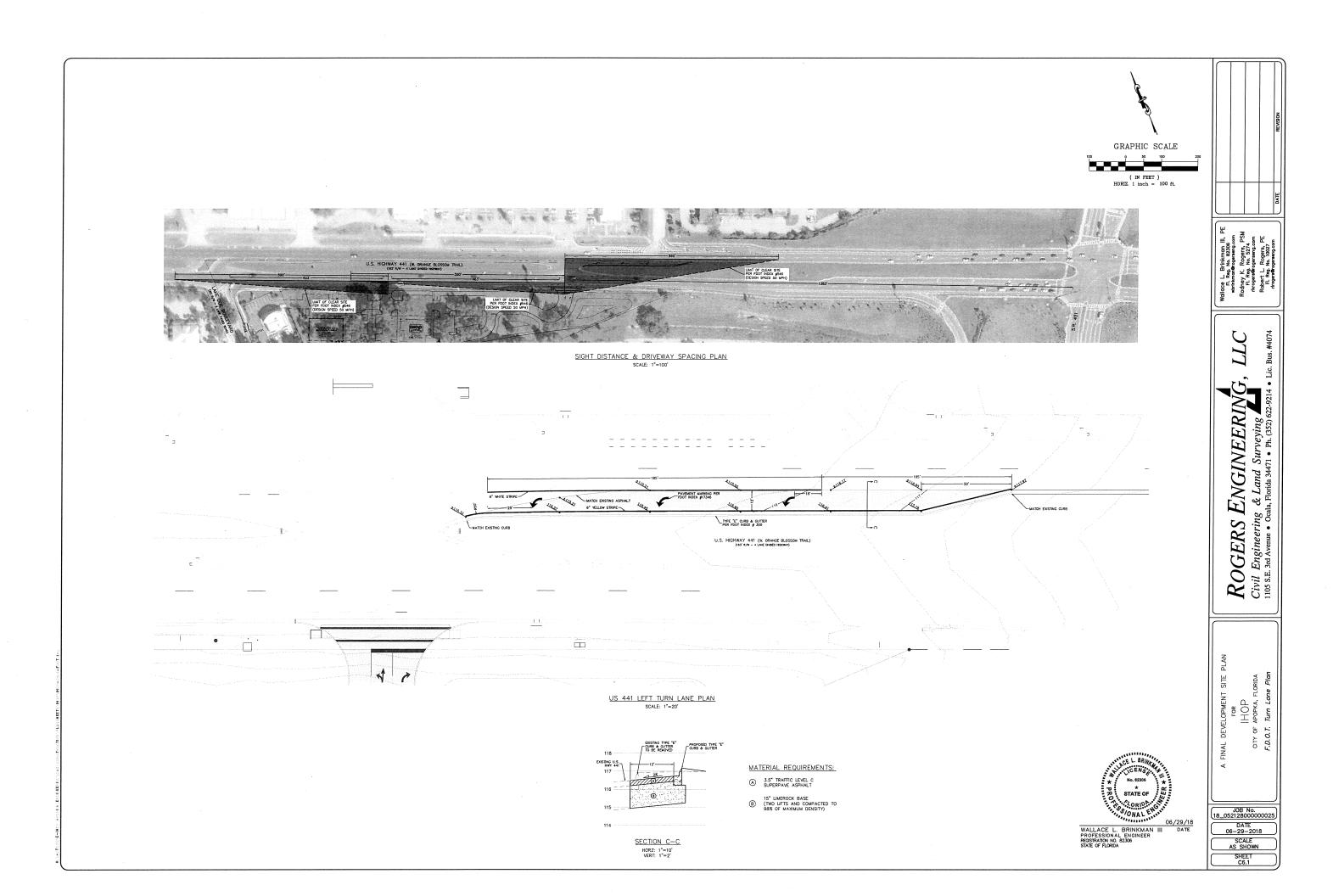
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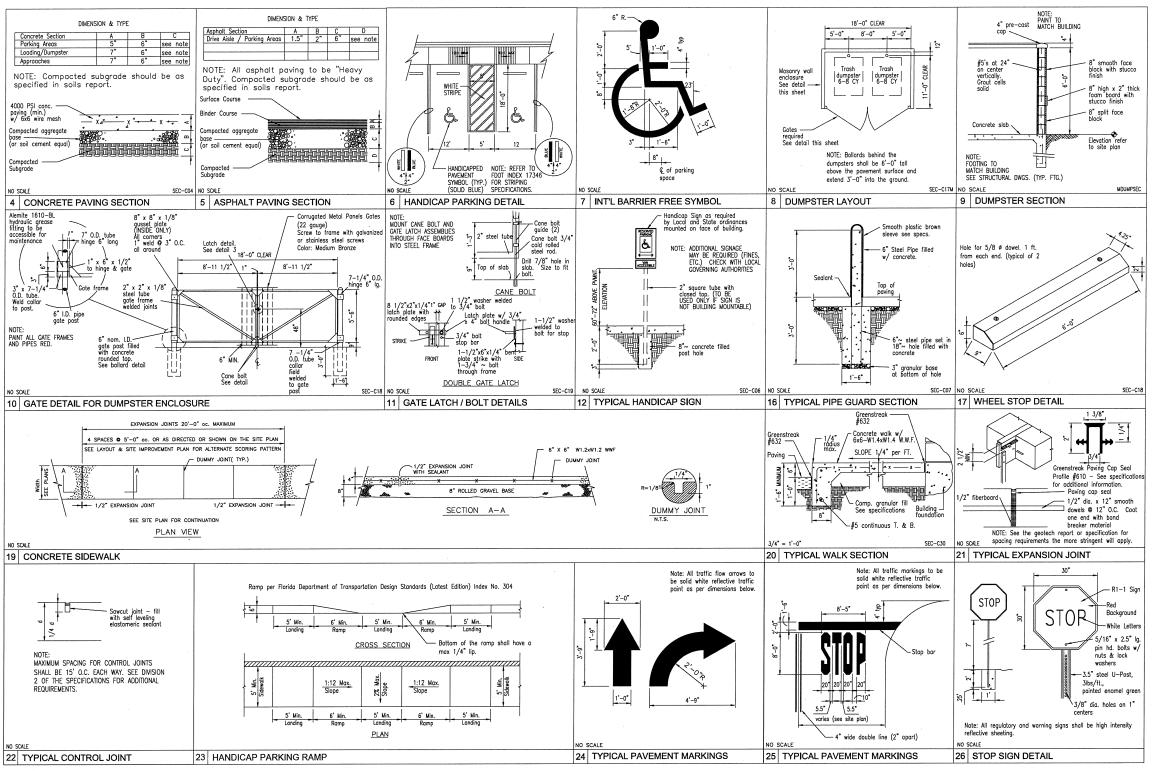
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PROFESSIONAL ENGINEER
REGISTRATION NO. 82306
STATE OF FLORIDA





NOIE 1: ANY/ALL DETAILS IN THESE PLANS WHICH DEPICT STRUCTURAL DESIGN ARE PROVIDED FOR REFERENCE ONLY. REFER TO THE APPROVED STRUCTURAL PLANS FOR DESIGN/DETAILS FOR ALL VERTICAL STRUCTURES. THE PROFESSIONAL ENGINEER SIGNING THESE PLANS IS NOT CERTIFYING ANY VERTICAL STRUCTURAL DESIGN OR DETAILS THEREOF.

 ${\color{red} {\rm NOTE~2:}}$ CONCRETE FOR SIDEWALKS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.



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FINAL

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GERS ENGINEERIN Engineering & Land Surveying (E. 31d Avenue • Ocala, Florida 3471 • Fh. (352) 622-921

ROGERS I

SCOPE: Supply one complete ECONO-GP Pre-Fab Lift Station, per design.

Pumps shall be capable of grinding and pumping domestic & commercial sewage.

Complete system shall be supplied by:

RILEY & Company, Inc. Sanford, FL 32773 (Ph. 407-265-9963)

NO SUBSTITUTIONS - NO ALTERNATES

PUMPS: Submersible grinder pumps shall be HOMA Model GRP. The pumps shall be installed in the ECONO-GP FRP wetwell utilizing a dual slide rail system. Installed in the ECONO-GP For weaven unitary a over since can a security. 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.

Oil filled motors are not considered equal to air filled motors and therefore will not be considered an equal to the HOMA PUMPS.

Stator winding shall be open type with Class F insulation and shall be heat-shrink fitted into the stator housing. The use of pins, bolts, or other fastening

A heat sensor theromstat shall be attached to the top end of the motor A heat sensor internalisation and action to the point of the modified 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:

Control panel shall be assembled and built by a TUV (UL508A CERTIFIED)

The Enclosure shall be NEMA 4X, Fiberglass, minimum 18" high x 16" wide x 6" deep with padlockable draw latches

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)

1- ea. Generator Receptacle w/ weatherproof cover

The backpanel 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 backpanel: 2-ea. Motor Contactors

1- ea. Silence Relay

1- ea. Duplex Altern

20- ea. Terminals For Field Connections

6- ea. Terminals For Motor Connections (Single Phase Only)

3- ea. Grounding Lugs 1- ea. Battery Back-Up for HL Alarm

The following components shall be included: 1- ea. Main Circuit Breaker

1- ea. Emergency Circuit Breaker
1- ea. Mechanical Interlock For Emergency And Main Breakers

2- ea. Short Circuit Protectors

1- ea Control Circuit Breaker

1- ea. Hand-Off-Auto Selector Switches 2- ea. Pump Run Pilot Lights

COMPONENT SPECIFICATIONS:

All circuit breakers shall be molded thermal magnetic. The mechanical interlock shall prevent the normal and emergency main breakers being energized at the same

accordance with DEP standards. The generator receptacle shall be adequately sized to meet the equipment operating

All motor short circuit protection devices must provide for undervoltage release and class 10 overload protection on all three phases. Visable trip indication, test, and reset capability must be provided without opening inner door. Open frame, across the line, contactors shall be rated per IEC standards and properly sized per the motor requirements. Contactors shall provide for safe touch power and control

Lightning Arrestor shall meet or exceed the requirements of ANSWEEE Std. C62.21-1984 section 8.6.1. and 8.7.3 shall be supplied by electrician and mounted on the bottom side of the switch disconnect ahead of the pump control panel.

A green pilot light shall be supplied for each motor. The pilot light shall illuminate each time the motor is called to run. A Red pilot light shall be supplied for control power. The pilot light shall illuminate when the control power is available inside

Relays shall be ice-cube plug in type. Relay contacts shall be

rated 10 amp minimum, DPDT.
Twenty (20) terminals shall be supplied for field connections. The terminals shall be rated 25 amps minimum. Each motors over-temperature contact shall be connected to the terminal strip and shall open a contact to de-energize the appropriate motor upon a high temperature within the motor. Ground lugs shall be supplied and appropriately sized for each motor and for service entrance.

MISCELLANEOUS:

The control panel shall be assembled by a TUV (UL508A Certified) manufacturing facility.

PUMP DATA

PRIMARY PUMP CAPACITY

PUMP MANUFACTURER

ELECTRICAL/ VOLTS / PHASE

PUMP DISCHARGE SIZE

IMPELLER DIAMETER

PRIMARY TOH

PUMP MODEL #

HORSEPOWER

R.P.M.

FASTNERS & APPURTANCES: All fasternes, lifting cables, float cable bracket, hinges, and appurtances shall be made of AISI

A 304SS slide/latch assembly shall be provided for holding the doors open on the wetwell and valve box. Slide rails shall be made of SCH.40 AISI 304SS pipe. Pump lifting cables shall be made of AISI 304 SS. Pump lifting bales shall be made of AISI 304 SS.

ELEVATIONS

BOTTOM OF WETWELL 104.00

WETWELL DIAMETER 36"

108.25

107.75

107.25

106.75

105.00

TOP OF WETWELL

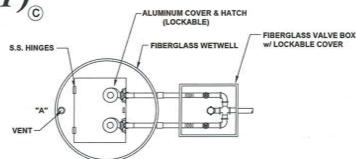
HIGH LEVEL ALARM

1st PUMP ON

PUMPS OFF

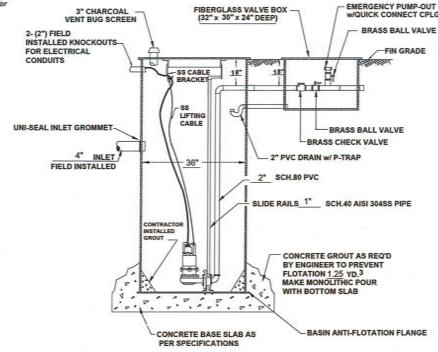
Installation shall be in strict accordance with the manufacturer's recommendations in the locations shown on the drawing.

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 of complete system. Megger the motors. The pump motors shall be megged out prior to the start-up to ensure that the insulation of the pump motor/cable is intact.
The pump controls and pumps shall be checked for nical reliability and proper operation.

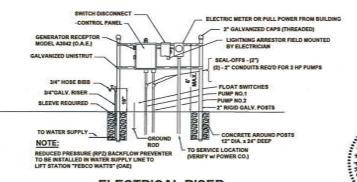


NOTE: PUMP CONTROL PANEL SHALL BE LOCATED 3 FEET FROM WETWELL PERIMETER

LIFT STATION PLAN



LIFT STATION SECTION



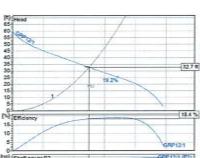
ELECTRICAL RISER FOR ILLUSTRATION ONLY

5274 88ng.o. Qers, 10027

"ENGINEERING R Land Surveying Cools, Florida 3471 • Ph. (352) 622-9214

Engineering S OGER

JOB No. 18_05212800000000 DATE 06-29-2018 SCALE



* ELECTRICIAN NOTES:

- 1. DRAWING NOT TO SCALE
- * 2. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES

25 GPM

3450

230/1

1.25"

4.41

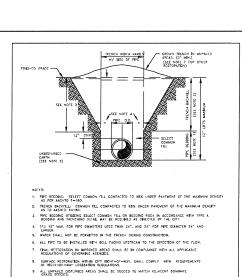
1.2

33 'TDH INLET INVERT

GRP12/1 2nd PUMP ON

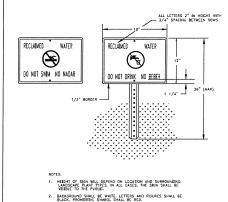
- * 3. FLECTRICIAN SHALL SEAL OFF CONDUIT RUNS
- * 4. ELECTRICIAN TO MOUNT LIGHTNING ARRESTOR AT SWITCH DISCONNECT
- * 5. CONTRACTOR SHALL VERIFY POWER SOURCE PRIOR TO ORDERING EQUIPMENT

RILEY & CO. / ECONO - GP 06-11-18



TYPE "B" BEDDING AND OPEN-CUT DETAIL

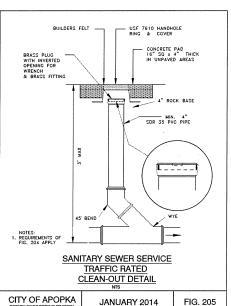
CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 100
occupito water		ERS 2" IN HEIGHT WITH ACING BETWEEN ROWS

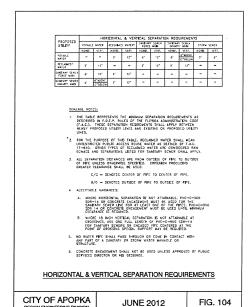


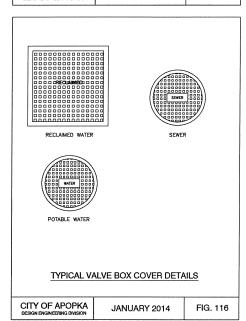
- POST SHALL BE U CHANNEL 12 FT. 2 LB. HOT ROLLED HIGH TENSILE RAIL OR BILLET STEEL, HOT DIP GALVANIZED PER ASTY A=123.
- SIGNS SHALL BE PLACED BY THE CONTRACTOR IN ACCORDANCE WITH THE CITY APPROVED ENGINEERING PLANS AND/OR AS APPROVED BY PUBLIS SERVICES OFFABRURAY.

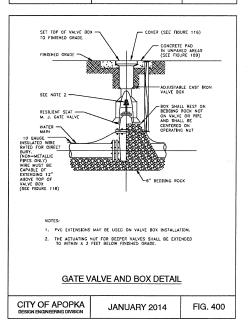
RECLAIMED WATER ADVISORY SIGN

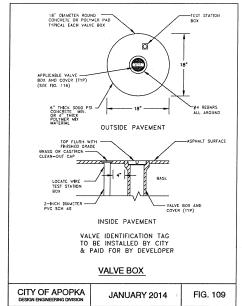
JANUARY 2014	FIG. 115
	JANUARY 2014

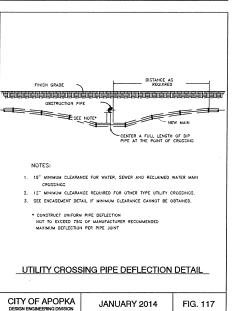


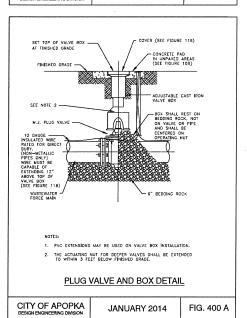


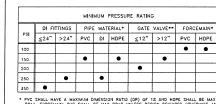










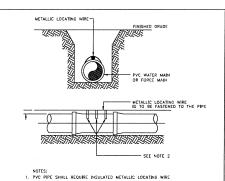


PVC SHALL HAVE A MAXIMUM DIVERSION RATIO (DP) OF 18 AND HOPE SHALL BE MAX DR11, FORECUASH: PVC SHALL BE MAX DR18 UNLESS DEDGN REQUIRED OTHERWISE AND HOPE SHALL BE MAX DR17.

BUTTERFLY VALVES SHALL BE CLASS ISOB

PIPE AND APPURTENANCES PRESSURE RATING

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JAUARY 2014	FIG. 110	
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- NOTES:

 1. PVC PIPC SHALL REQUIRE INSULATED METALLIC LOCATING WIRE

 (10 AWG-SOULD CCS REINFORCED TRACER WIRE—REQUIATED JOS ML.

 HOPF 30 VOLT MEG. 9X COPPENEAD MOUSTRES, LIC OR REQUIA)

 CAPABLE OF DETECTION BY A CABEL LOCATOR?

 2. SHALL BE BURNED OBECTLY ADDRESS THE CENTERIANS OF THE PIPE AND

 ATTACHED WITH DUCT TAPE OR NYLON STAPES AT 3 LOCATION FOR ADDRESS

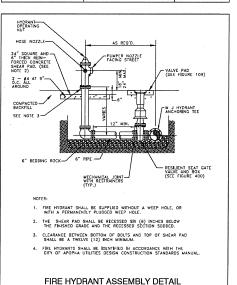
 LOCATION WIRE SHALL TERMINATE AT THE TEST STATION BOX AS SHOWN

 N. TIC. 1938.

- 5. WIRE INSULATION SHALL BE COLOR CODED FOR THE TYPE OF PIPE BEING INSTALLED

PVC PIPE LOCATING WIRE DETAIL

CITY OF APOPKA DESIGN ENGINEERING DIVISION	JANUARY 2014	FIG. 118



JANUARY 2014

FIG. 402

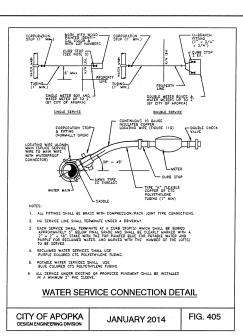
CITY OF APOPKA

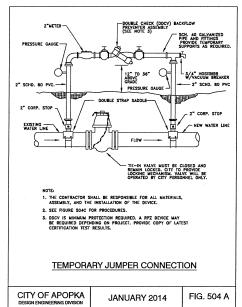


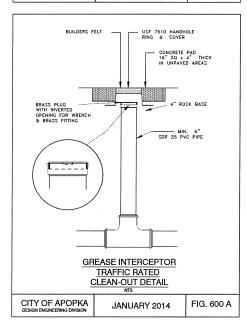
idilace L. Brinkman III, PE. R. Rogers, No. 8206 whithman Brogers and some Rodney K. Rogers, PSM FI. Reg. No. 5274 frogers Gogers and Robert L. Rogers, PE. R. Regers, PE. R. Regers We. 1027 frogers deograms, and some Robert L. Rogers.

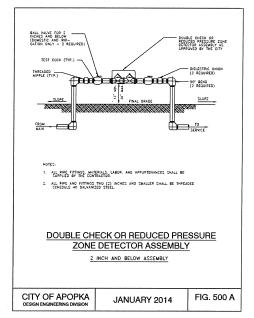
SITE DEVELOPMENT S
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TY OF APOPKA, FLOF city

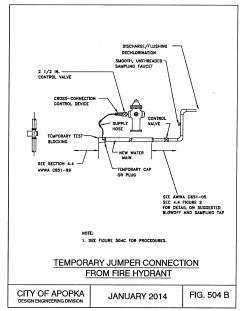
JOB No. 18_052128000000025 DATE 06-29-2018 SCALE AS SHOWN SHEET C8.0

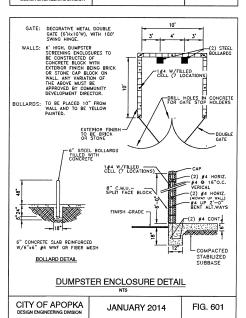


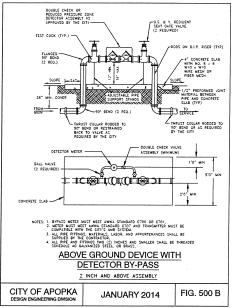


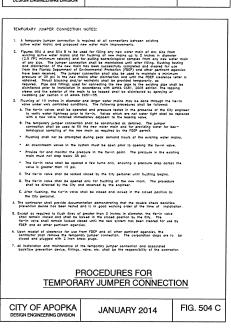


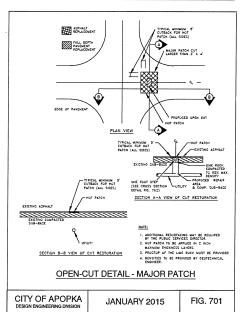


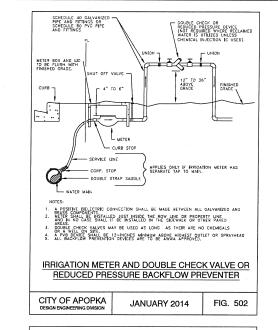


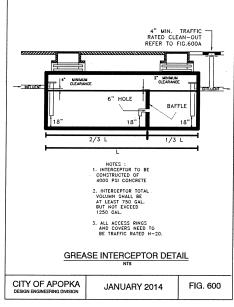


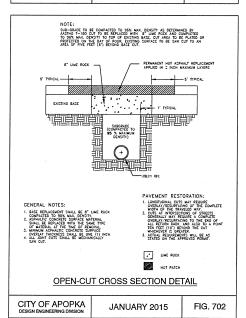








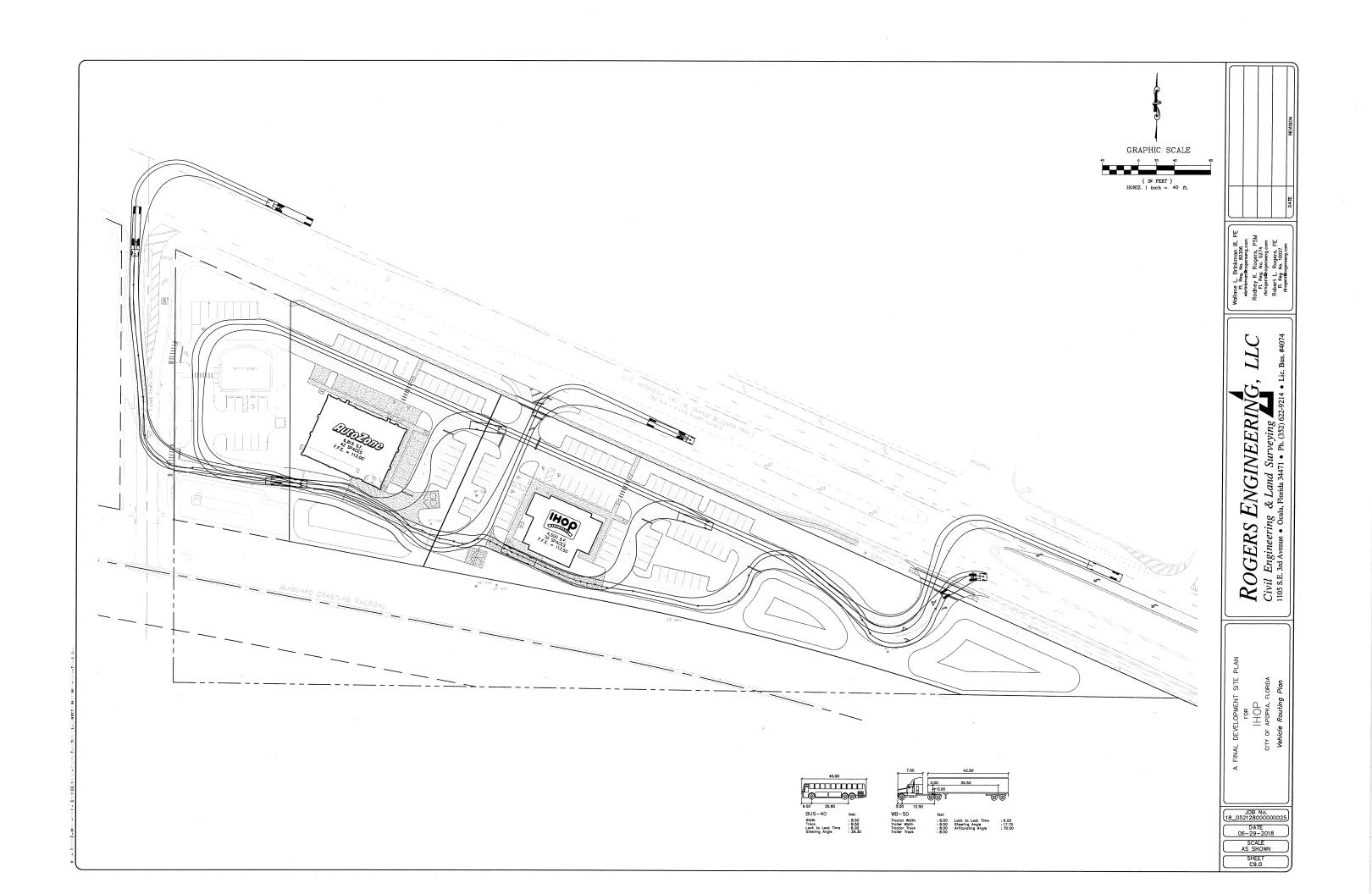


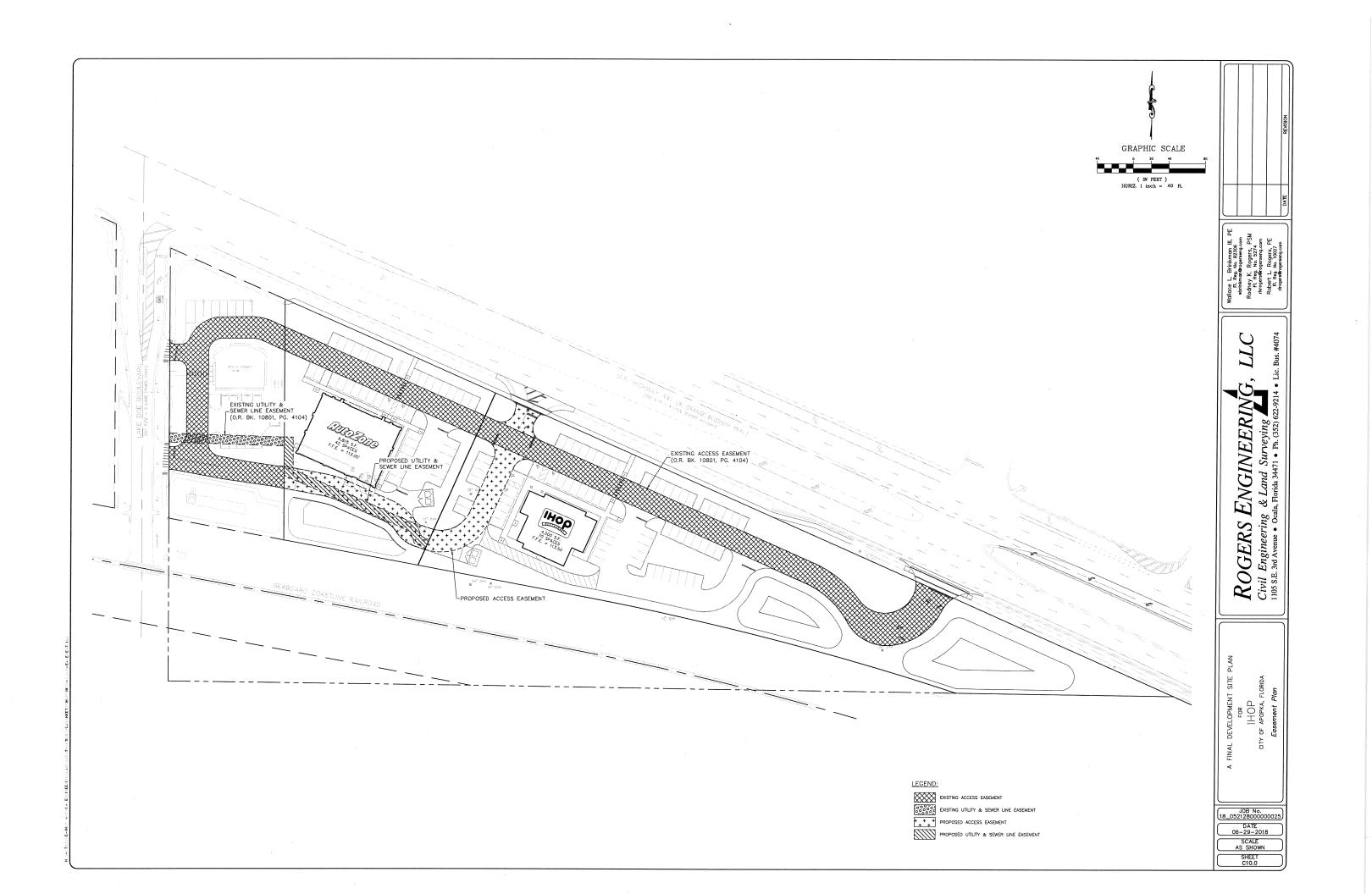


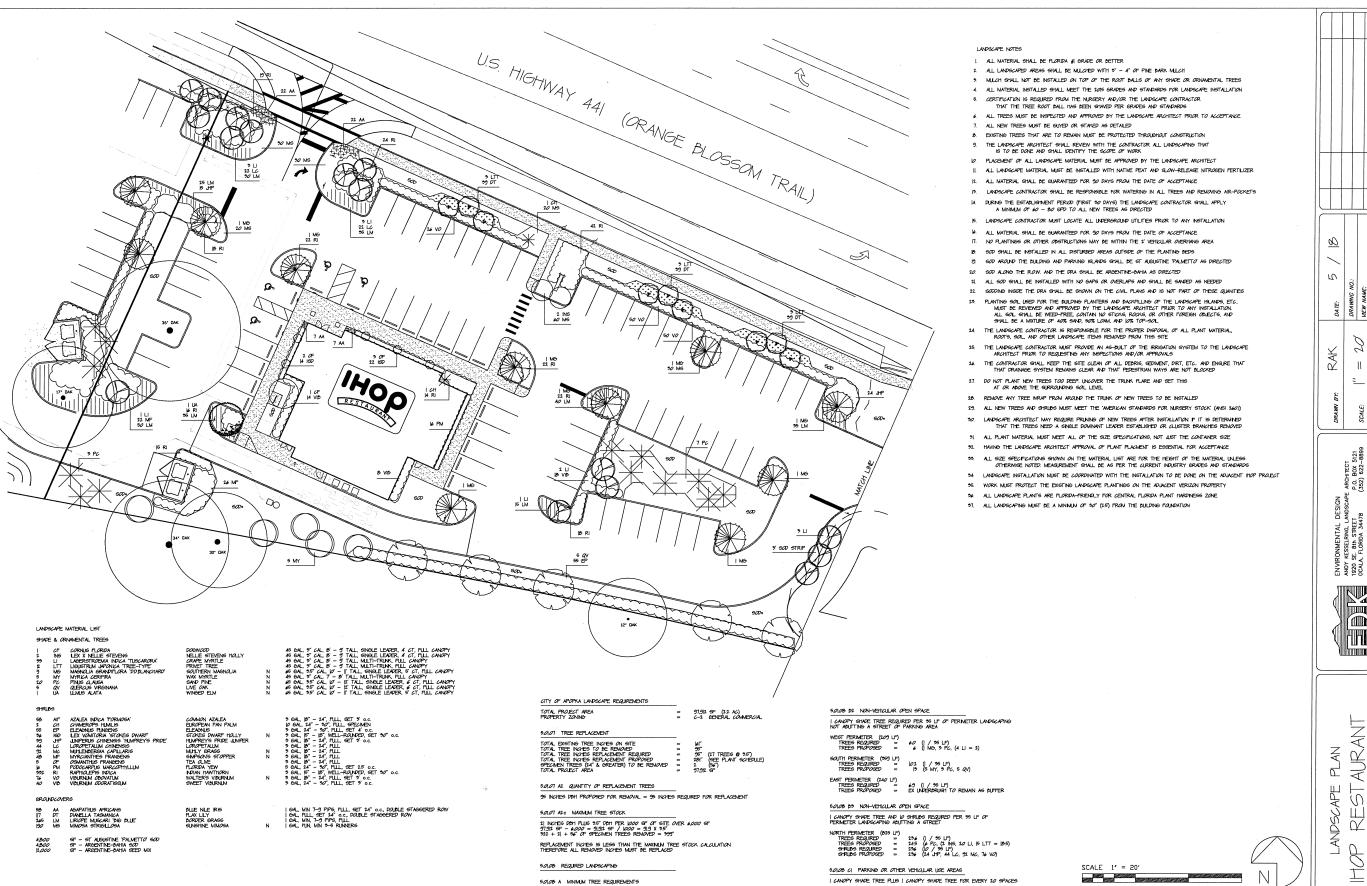


Illoce L. Brinkmon III, PE R. Rep. No. 82308 wbrihkman@rogereng.com lodney K. Rogers, PSM R. Rep. No. 827 rkrogers@rogersm.com Robert L. Rogers, PE R. Rep. No. 10027 ringers@rogersm.com









I CANOPY SHADE TREE REQUIRED PER \$,000 SF OF SITE 97/01 SF / 8000 = 121 CANOPY SHOPE TREES REQUIRED 34 CANOPY SHOPE TREES PROPOSED (SEE PLANT SCHEDLE) 70 PARKING SPACES = 4+ | = 5 CANOPY SHADE TREES REQUIRED to CANOPY SHADE TREES PROPOSED (I EX, 8 MG, I UK)

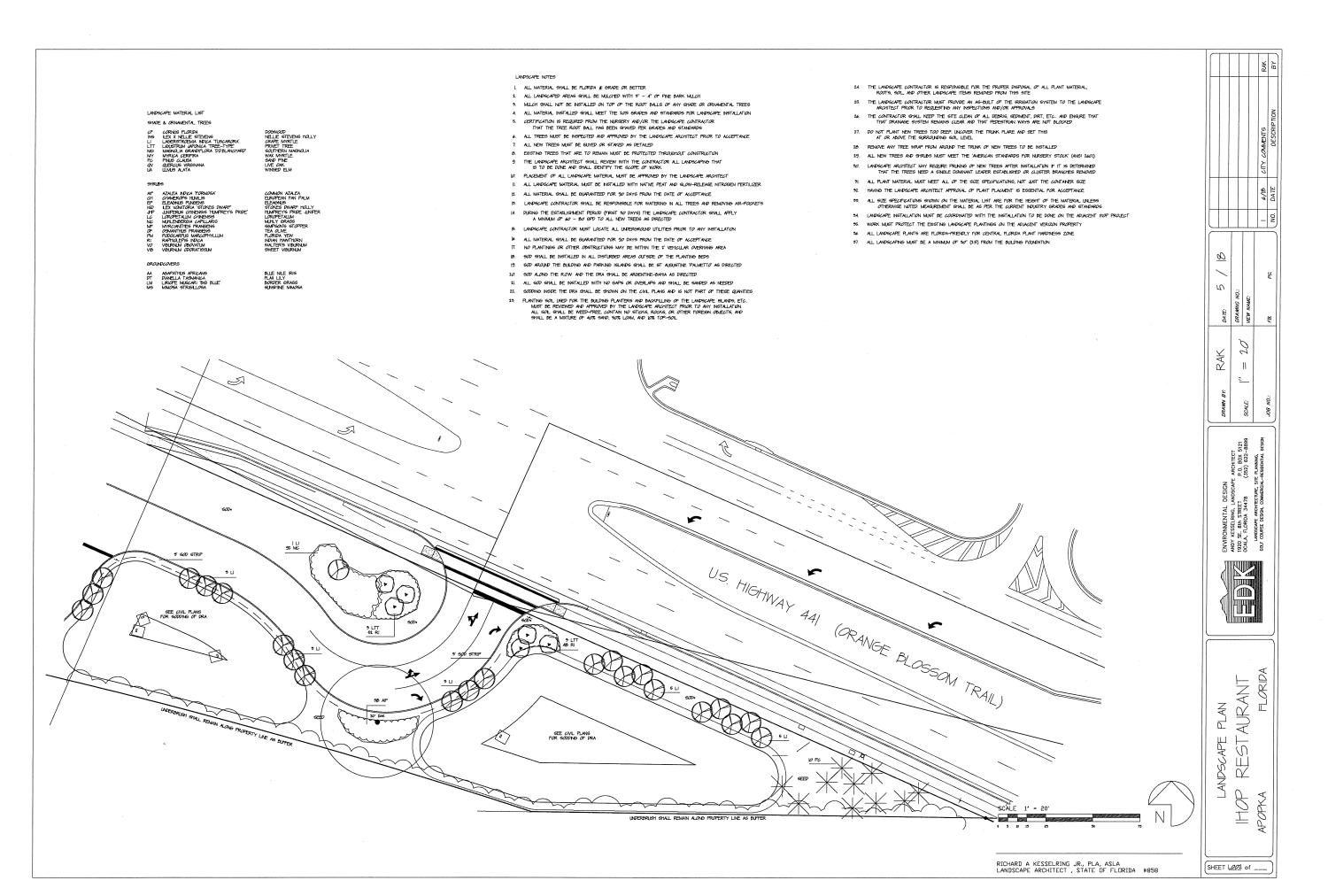
P.C. 70, 11 SCALE:

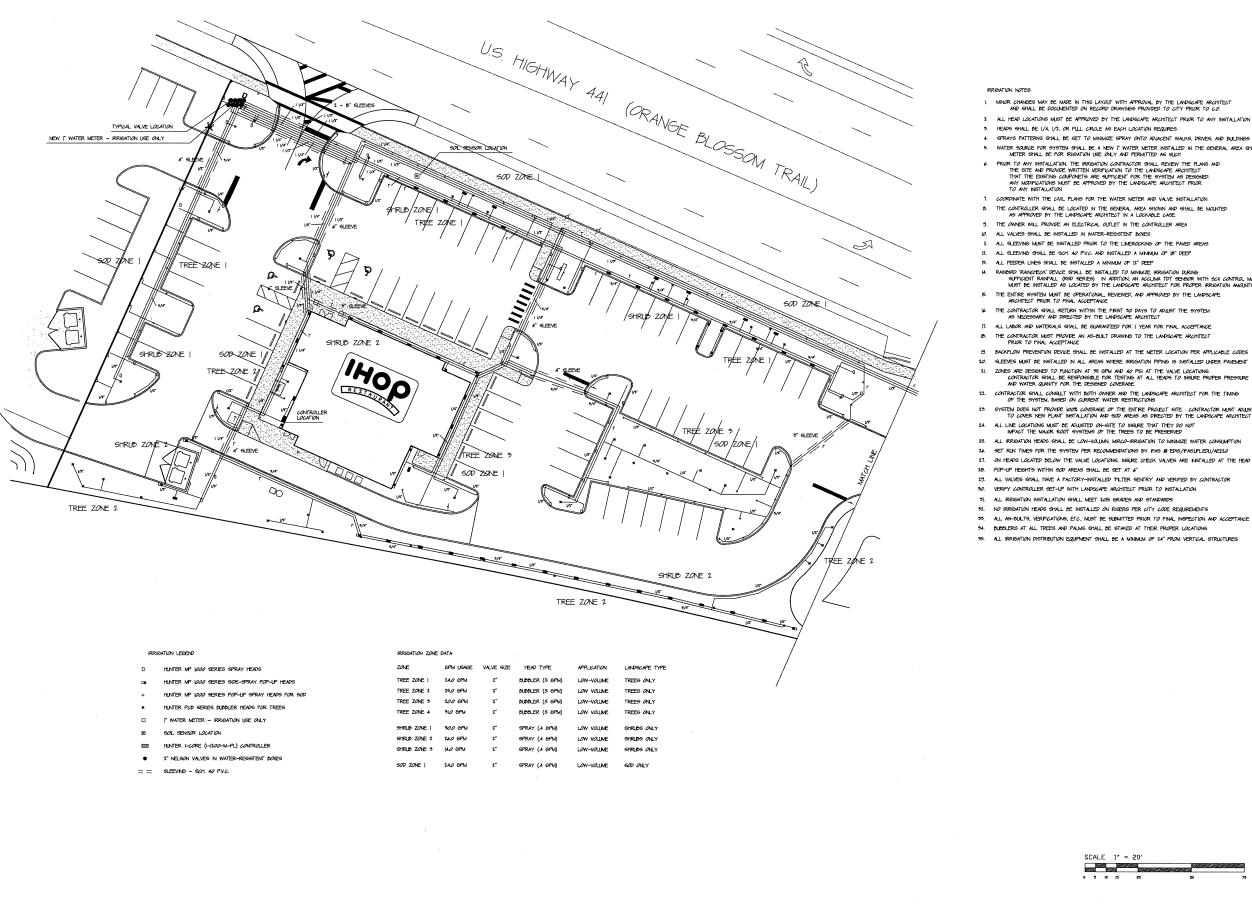
ENVIRONMENTAL DESIGN
ANDY KESSELRING, LANDSCAPE ARCHITECT
1920 SE, BH STREET
PO, BOX 515
COLAL, FLORDA 34478
(322) 622—82
LANDSCAPE ARCHITECTINE, SITE FLANDRIC,
GOLF COUPER DESIGN, COMMERCIAL—RESIDENTAL DE

AURANT FLORI REST ₹ D APOPKA

RICHARD A KESSELRING JR., PLA, ASLA LANDSCAPE ARCHITECT , STATE OF FLORIDA #858

SHEET LOOL of





- 1. ALL HEAD LOCATIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO ANY INSTALLATION
- 4. SPRAYS PATTERNS SHALL BE SET TO MINIMIZE SPRAY ONTO ADJACENT WALKS, DRIVES, AND BUILDINGS
- WATER SOURCE FOR SYSTEM SHALL BE A NEW I" WATER METER INSTALLED IN THE GENERAL AREA SHOWN.
 METER SHALL BE FOR INIGATION USE ONLY AND PERMITTED AS SUCH
- COORDINATE WITH THE CIVIL PLANS FOR THE WATER METER AND VALVE INSTALLATION

- II. ALL SLEEVING MUST BE INSTALLED PRIOR TO THE LIMEROCKING OF THE PAVED AREAS

- RAINDARD "RAINCHEAK" DEVICE SHALL DE INSTALLED TO MINIMIZE IRRIGATION DIRING SUPPLIEDT RAINFALL. (ROD SERVES). IN ADDITION, AN ACCUMA TOT SENSER WITH SCX CONTROL MONITOR MUST DE INSTALLED AS LOCATED BY THE LANDSCAPE ARCHITECT FOR PROPER IRRIGATION ANOMIN'S

- ALL LABOR AND MATERIALS SHALL BE GUARANTEED FOR I YEAR FOR FINAL ACCEPTANCE
- 19. DACKFLOW PREVENTION DEVICE SHALL BE INSTALLED AT THE METER LOCATION PER APPLICABLE CODES
- 10. SLEEVES MUST DE INSTALLED IN ALL AREAS WHERE IRRIGATION PIPING IS INSTALLED UNDER PAVEMENT

- 29. SYSTEN DOES NOT PROVIDE LOOK COVERAGE OF THE ENTIRE PROJECT SITE. CONTRACTOR MUST ADJIST HEADS TO COVER NEW PLANT INSTALLATION AND SOD AREAS AS DIRECTED BY THE LANDSCAPE ARCHITECT
- 25. ALL IRRIGATION HEADS SHALL BE LOW-VOLUMN, MIRCO-IRRIGATION TO MINIMIZE WATER CONSUMPTION
- 14. SET RUN TIMES FOR THE SYSTEM PER RECOMMENDATIONS BY FAS @ EDIS/FASUFLEDU/AE110

- 9). ALL IRRIGATION INSTALLATION SHALL MEET 2015 GRADES AND STANDARDS
- 92. NO IRRIGATION HEADS SHALL BE INSTALLED ON RISERS PER CITY CODE REQUIREMENTS
- 34. BUBBLERS AT ALL TREES AND PALMS SHALL BE STAKED AT THEIR PROPER LOCATIONS

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				CITY COMMENTS	
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JOB NO.				FB.		PG		_	- ≥

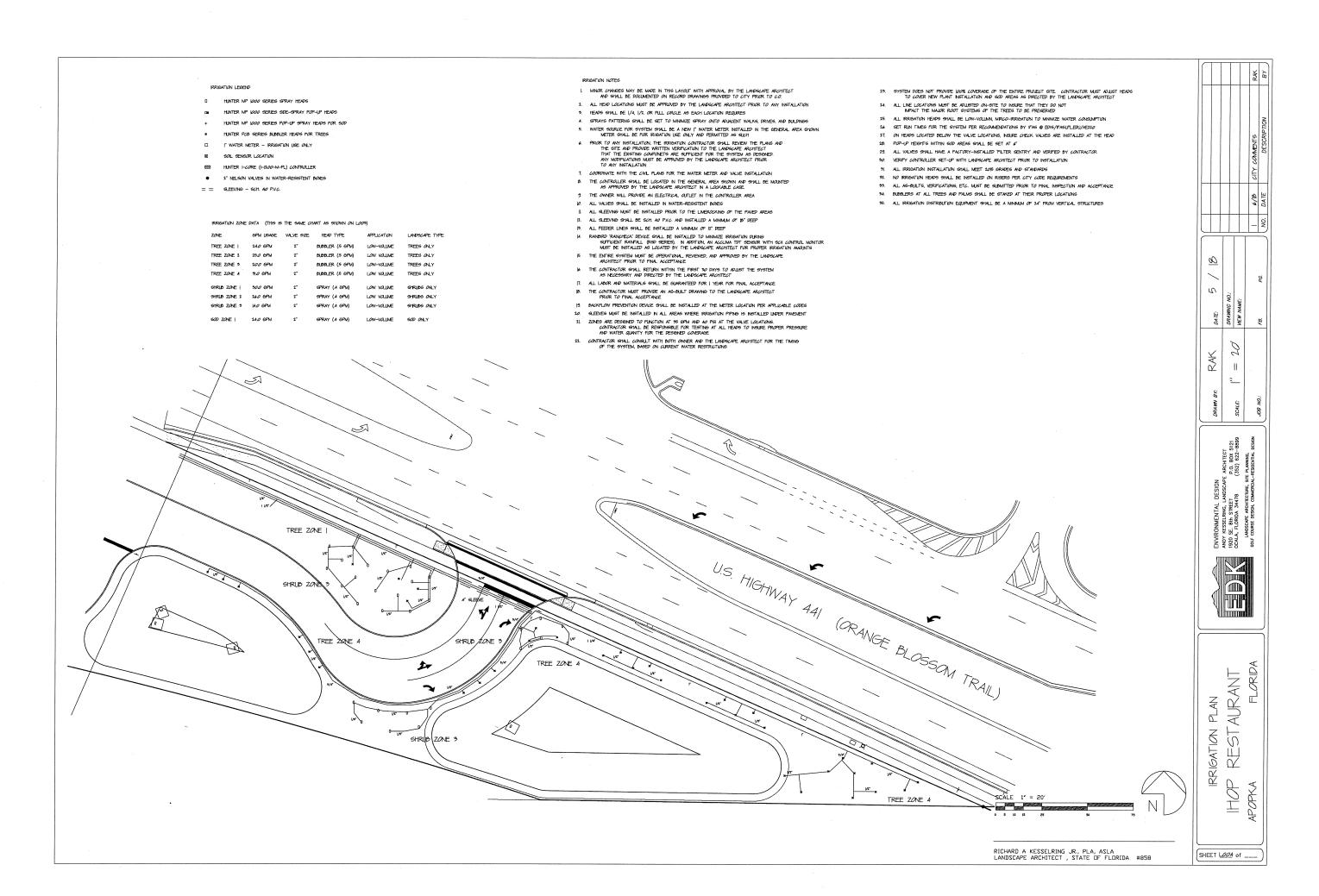
ENVIRONMENTAL DESIGN
ANDY KESSEIANG, LANDSCAPE ARCHITECT
1920 SE, BIN STREET
1920 SE, BIN STREET
1921 SE, BIN STREET
1925 SEZ-BIN
LANDSCAPE ARCHITECTURE, SITE PLANNING,
COLF COLFREY DESIGN, COMMERCIAL-RESIDENTIAL DE

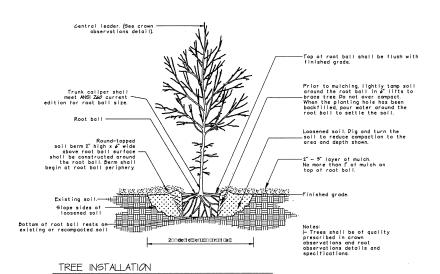


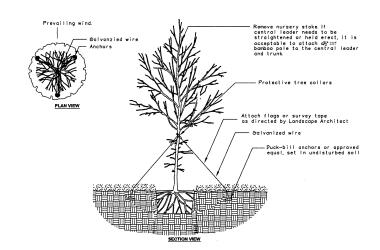
FLORIDA -AURANT PLAN Γ IRRIGATION TO APOPKA

RICHARD A KESSELRING JR., PLA, ASLA LANDSCAPE ARCHITECT , STATE OF FLORIDA #858

SHEET LOOS of ____

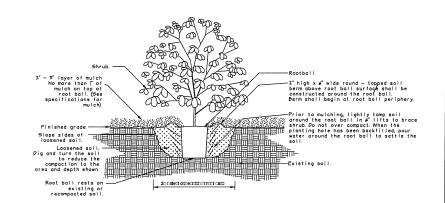




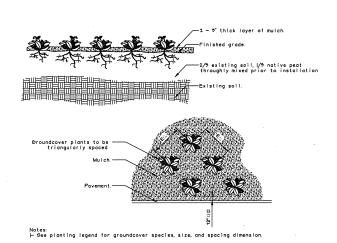


Wall, tence, or building. -

-|" PVC electrical conduit for ET sensor (optional).



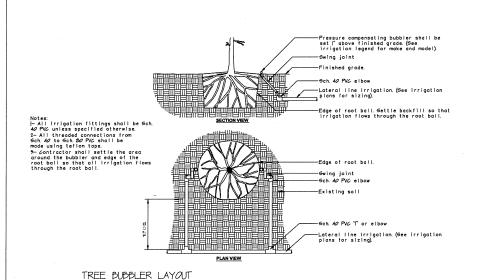
SHRUB INSTALLATION

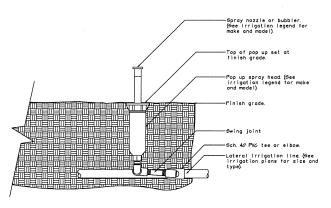




TREE STAKING - TREES < 2" CALIPER

GRAUNDCOVER INSTALLATION WALL MOUNTED CONTROLLER





Notes: $+\mathcal{F}$ pop ups shall be used in turf areas. $-\mathcal{F}$ -Contractor shall settle soil around the pop up after installation. $-\mathcal{F}$ -All pop up spray heads shall have check valves. $-\mathcal{F}$ -All Sch. \mathcal{M} -PWC to Sch. \mathcal{B} O-PWC connections shall be made using teflon tope.

POP UP-SPRAY HEAD



CITY COMMENTS
DESCRIPTION

6/18 DATE

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 σ

RAK

DATE: DRAWNG VEW NAM

10,

11

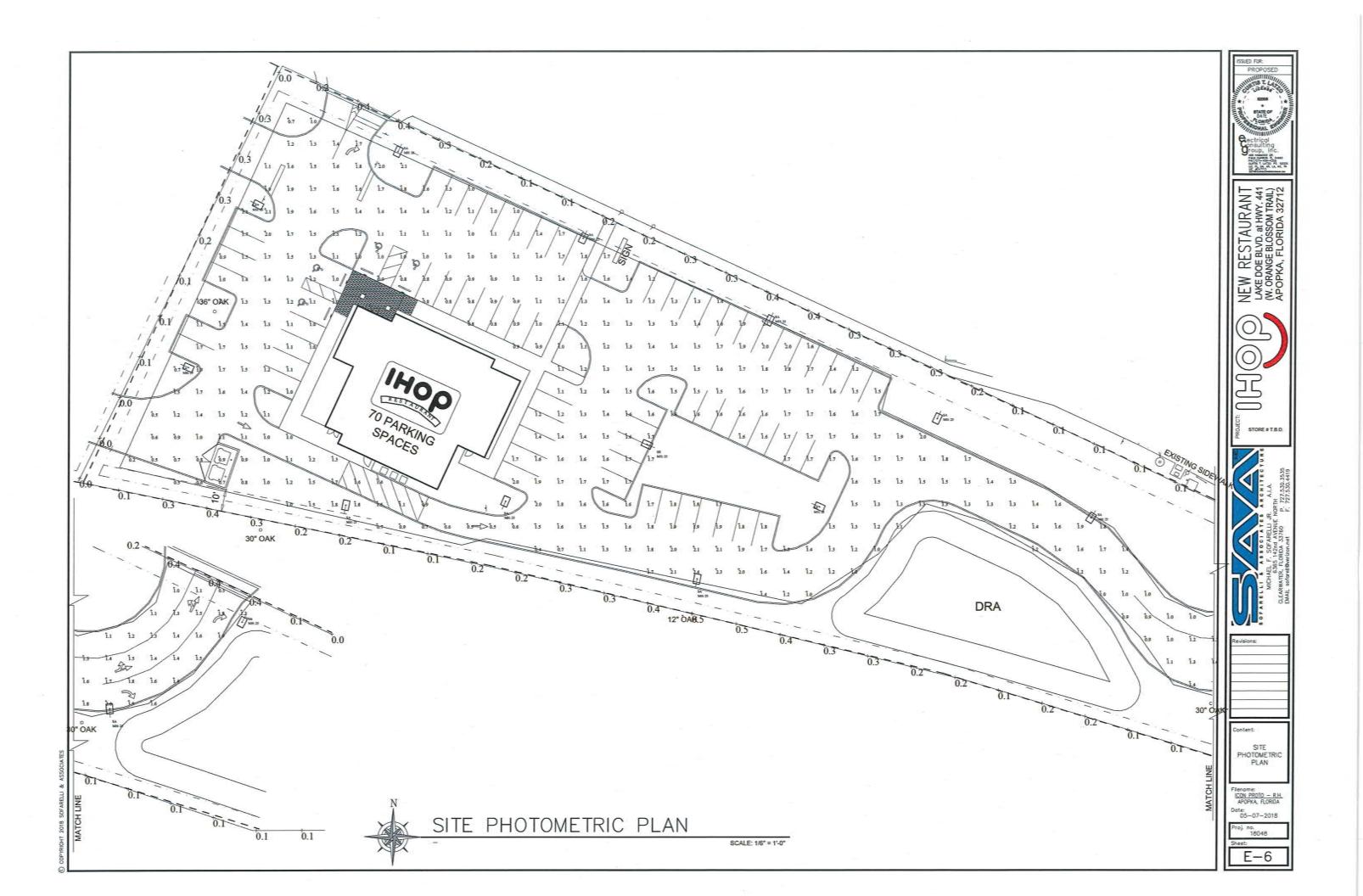
SCALE:

IRRIGATION DET STAURANT FLORIDA W W \approx ANDSCAPE APOPKA TOT

RICHARD A KESSELRING JR., PLA, ASLA LANDSCAPE ARCHITECT , STATE OF FLORIDA #858

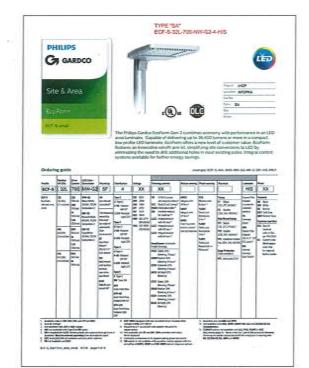
N,

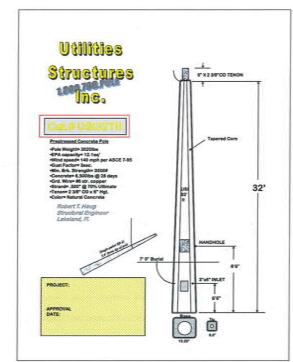
SHEET L005 of ____



Luminaire Sched	lule					
Symbol	Label	Qty	Description	Arrangement	LLF	Lum. Watts
-	SA	12	GARDCO ECF-S-32L-700-NW-G2-4-HIS	SINGLE	0.900	72.9
-	SB	2	GARDCO ECF-S-32L-700-NW-G2-5W	SINGLE	0.900	72.9

Calculation Summary					
Description	Avg	Max	Min	Avg/Min	Max/Mir
PROPERTY BOUNDARY	0.21	0.5	0.0	N.A.	N.A.
PARKING & DRIVEWAY	1.37	2.4	0.2	6.85	12.00









E-6.1



SITE PHOTOMETRIC DETAILS PLAN

ALE: NONE

This instrument was prepared by and should be returned to:
William P. Weatherford, Jr.
Marlowe & Weatherford, P.A.
1150 Louisiana Avenue, Suite 4
Winter Park, Florida 32789
(407) 629-5008

DOC# 20140454685 B: 10801 P: 4104
09/08/2014 02:58:37 PM Page 1 of 21
Rec Fee: \$180.00
Deed Doc Tax: \$0.70
DOR Admin Fee: \$0.00
Intangible Tax: \$0.00
Mortgage Stamp: \$0.00
Martha O. Haynie, Comptroller
Orange County, FL
MB - Ret To: WOODS & WOODS PA

ACCESS & UTILITY EASEMENT AGREEMENT

WITNESSETH:

WHEREAS, simultaneous with the execution of this Agreement, Rock RDP 1 has acquired from Calmil a fee simple ownership interest in certain real property, located in Orange County, Florida, more particularly described in Exhibit "A", attached hereto and incorporated herein (the "Rock RDP 1 Property").

WHEREAS, Calmil has retained ownership of certain real property, located in Orange County, Florida, more particularly described on Exhibit "B" attached hereto and by this reference incorporated herein (the "Calmil Property") which Calmil Property is adjacent to the Rock RDP 1 Property; and

WHEREAS, Calmil is conveying the Rock RDP 1 Property to Rock RDP 1 on the condition that Rock RDP 1 grant to Calmil to the easements granted in this Agreement; and

WHEREAS, Calmil desires an easement over and across a portion of the Rock RDP 1 Property to the benefit of the Calmil Property, for the purpose of a non-exclusive easement for vehicular and pedestrian access, ingress, egress but not parking, subject to the terms and provisions hereinafter set forth; and

WHEREAS, Calmil desires an easement over and across a portion of the Rock RDP 1 Property the benefit of Calmil Property, for the purpose of installing and maintaining utility lines subject to the terms and provisions hereinafter set forth.

NOW THEREFORE, in consideration of the premises hereof and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Rock RDP 1 and Calmil hereby agree as follows:

1. Grant of Mutual Access, Ingress and Egress Easements.

a. Rock RDP 1 hereby grants and conveys to Calmil, for the use and

benefit of Calmil and its successors, assigns, purchasers, tenants, employees, agents, invitees and licensees and guests, a non-exclusive easement across any driveways, roads, access ways, sidewalks, walkways, exits and entrances which may, from time to time, be located on the Rock RDP 1 Property solely for purposes of vehicular and pedestrian ingress and egress to and from the Calmil Property to Lake Doe Boulevard, but not for parking, as generally depicted on Exhibit E, attached hereto. The depiction of particular driveways on Exhibit "E" shall not be construed as an obligation to establish or maintain those particular driveways.

- b. Calmil hereby grants and conveys to Rock RDP 1, for the use and benefit of Rock RDP 1 and its successors, assigns, purchasers, tenants, employees, agents, invitees and licensees and guests, a non-exclusive easement across any driveways, roads, access ways, sidewalks, walkways, exits and entrances which may, from time to time, be located on the Calmil Property solely for purposes of vehicular and pedestrian ingress and egress to and from the Rock RDP 1 Property to United States Highway 441, but not for parking, as generally depicted on Exhibit E, attached hereto. The depiction of particular driveways on Exhibit "E" shall not be construed as an obligation to establish or maintain those particular driveways.
- c. Rock RDP 1 shall, at its sole cost and expense, design and construct such driveways, access ways, exits and entrances as may be reasonably necessary to provide a point of access from the Rock RDP 1 Property to Calmil Property (the "Rock RDP 1 Driveway Construction Obligation"). The driveways, access ways, exits and entrances designed and constructed by Rock RDP 1 on the Rock RDP 1 Property shall comply with the requirements of the City of Apopka. Rock RDP 1 shall perform the Rock RDP 1 Driveway Construction Obligation on or before the issuance of a certificate of occupancy for any occupant of any portion of the Rock RDP 1 Property but no later than December 31, 2015.
- d. Calmil or its successor shall, at its sole cost and expense, design and construct such driveways, access ways, exits and entrances as may be reasonably necessary to provide a point of access from the Calmil Property to Rock RDP 1 Property. The driveways, access ways, exits and entrances designed and constructed by Calmil on the Calmil Property shall comply with the requirements of the City of Apopka. Calmil shall complete the construction of such driveways, access ways, exits and entrances on or before the issuance of a certificate of occupancy for any occupant of any portion of the Calmil Property.
- e. Notwithstanding the easements granted hereunder, Rock RDP 1 shall not permit construction vehicles seeking access to the Rock RDP 1 Property to obtain ingress and egress to the Rock RDP 1 Property across Calmil Property. Likewise, Calmil shall not permit construction vehicles seeking access to Calmil Property to obtain ingress and egress to Calmil Property across the Rock RDP 1 Property.
- f. Calmil reserves the right to establish, from time to time, reasonable rules and regulations for the use of the driveways, access ways, sidewalks, walkways, exits and entrances of the Calmil Property. Likewise, Rock RDP 1 reserves the right to establish, from time to time, reasonable rules and regulations for the use of the driveways, access ways, sidewalks, walkways, exits and entrances of the Rock RDP 1 Property.
- g. Calmil shall not establish or erect signs directing traffic from Calmil Property to the driveways, access ways, sidewalks, walkways, exits and entrances of the

Rock RDP 11 Property. Likewise, Rock RDP 1 shall not establish or erect signs directing traffic from the Rock RDP 1Property to the driveways, access ways, sidewalks, walkways, exits and entrances of Calmil Property.

- h. Each party reserves the right, subject to the approval of the other party, which approval shall not be unreasonably withheld, to record an instrument containing the legal description and a sketch of such legal description of the driveways, access ways, sidewalks, walkways, exits and entrances of its Property. Upon the recordation of such instrument the rights of ingress and egress described in this instrument shall apply solely to the real property included in such description.
- Calmil, for the use and benefit of Calmil Property, the owners of any portion thereof or interest therein, their successors and assigns, a non-exclusive easement for utility purposes over, under and across the property legally described in **Exhibit "C"** and as depicted in **Exhibit "C"** and as depicted in **Exhibit "C"**, both attached hereto and incorporated herein a. ("Utility Easement Area"). Utility installations within the Utility Easement Area may, without limitation, include water (potable, fire protection and irrigation water), telephone, cable, gas and electric power. Calmil may from time to time, at its sole cost and expense, install, maintain and repair, within the Utility Easement Area underground utility lines to provide services to Calmil Property.

Prior to beginning any Utility installations in the Utility Easement Area, Calmil will provide written notice to Rock RDP 1 not later than twenty (20) days from the date Calmil anticipates commencing its' work.

Notwithstanding the foregoing, Calmil hereby agrees that during the any installations within the Utility Easement Area and at all times thereafter for the purposes of maintenance or repair, it shall make every reasonable effort not to impede the driveways, access ways, sidewalks, walkways, exits and entrances of the Rock RDP 1 Property or in any way restrict the access to and from the Rock RDP 1 Property of any automobile, pedestrian, employee or agent of Rock RDP 1.

3. Grant of Sewer Line Easement. Rock RDP 1 hereby grants and conveys to Calmil, for the use and benefit of Calmil Property, the owners of any portion thereof or interest therein, their successors and assigns, a non-exclusive easement for the for the conduct and passage of waste water through certain sanitary sewer mains, pipes, conduits, valves, meters and related appurtenances located within the property legally described in Exhibit "D" and as depicted in Exhibit "D-1", both attached hereto and incorporated herein ("Sewer Line Easement Area") Rock RDP 1 shall, at its sole cost and expense, design and construct the following improvements to be located in the Sewer Line Easement Area:

Construction of a 4" PVC sanitary sewer force main from the common Calmil/Rock RDP 1 property line, westerly across the Rock RDP 1 parcel, with connection to the City's force main in Lake Doe Boulevard

which improvements shall comply with the requirements of the City of Apopka (the "Sewer Line Construction Obligation"). Rock RDP 1 shall perform the Sewer Line Construction Obligation on or before the issuance of a certificate of occupancy for any occupant of any

portion of the Rock RDP 1 Property but no later than December 31, 2015. Calmil may, from time to time and at its sole cost and expense, connect to the lines and facilities located within the Sewer Line Easement Area to provide services to Calmil Property.

Notwithstanding the foregoing, Calmil hereby agrees that during the construction of the Sewer Line Construction Obligation improvements and at all times thereafter for the purposes of maintenance or repair, it shall make every reasonable effort to not impede the driveways, access ways, sidewalks, walkways, exits and entrances of the Rock RDP 1 Property or in any way restrict the access of any automobile, pedestrian, employee or agent of Rock RDP 1 to the Rock RDP 1 Property.

- 4. <u>Duration</u>. The easements hereby created, granted and conveyed shall remain in effect in perpetuity, subject to the right of Rock RDP 1 to relocate the Utility Easement Area and Sewer Line Easement Area as more particularly set forth in Section 5.
- Relocation of the Utility Easement Area and Sewer Line Easement. Rock RDP 1 reserves the right to relocate all or any part of Utility Easement Area or Sewer Line Easement Area, and the utility lines and facilities installed therein, lying within the Rock RDP 1 Property to one or more other easement areas constituting a part of the Rock RDP 1 Property, provided that Rock RDP 1 pays all costs of relocation, at its sole cost and expense, the reasonable needs of Calmil continue to be met in a reasonable manner during relocation, and Rock RDP 1 executes and delivers to Calmil an amendment to this Agreement, or a separate instrument in form and content acceptable to Rock RDP 1 and Calmil, in which Calmil is granted an easement in and to the new easement area(s), and in which the easement granted herein affecting the relocated easement area(s) will be terminated. Rock RDP 1 shall provide not less than sixty (60) days written notice to Calmil that Rock RDP 1 intends to relocate such easement areas and shall provide plans and specification providing reasonable information about its plans for such relocation (hereafter the "Relocation Notice"). Provided that Calmil does not object within twenty (20) days from the date of the Relocation Notice, then Rock RDP 1 may proceed with such relocation in accordance with such plans. Notwithstanding the forgoing, without the express written consent of Calmil, Rock RDP 1 may not commence its' activities to relocate the Utility Easement Area or Sewer Line Easement area until the sixtieth (60th) day from the date of the Relocation Notice.
- Area. Calmil, at its sole cost and expense, shall be responsible for the repair and maintenance of the utility lines and facilities located within the Utility Easement Area and Sewer Line Easement Area which lines and facilities exclusively serve the Calmil Property. Rock RDP 1, at its cost and expense, shall be responsible for the repair and maintenance of the utility lines and facilities located within the Utility Easement Area and Sewer Line Easement Area which lines and facilities serve the Rock RDP 1 Property.
- 7. Remedies. If Rock RDP 1 fails to maintain and repair the utility lines and facilities serving both the Rock RDP 1 Property and the Calmil Property and or driveways, roads, access ways, sidewalks, walkways, exits and entrances serving the Calmil Property so that they shall at all times be in good and operable condition and in compliance with all applicable governmental codes and regulations or, if Rock RDP 1 shall fail to perform the Rock RDP 1 Driveway Construction Obligation or the Sewer Line Construction Obligation within the time specified herein, Calmil shall have the right after twenty (20) days written

notice to Rock RDP 1 or, in case of an emergency, at any time, to undertake reasonable construction, repairs and maintenance and Rock RDP 1 shall reimburse Calmil for all reasonable costs and expenses related to Calmil's construction, maintenance and repair activities within thirty (30) days of receipt of an invoice for such costs. In the event Rock RDP 1 does not pay when due Calmil's costs and expenses, Calmil shall be entitled to execute and record among the Public Records of Orange County, Florida a claim of lien encumbering Rock RDP 1 Property. The claim of lien shall be in an amount equal to the reimbursement due to Calmil, plus interest at the highest rate allowed by law from the date said reimbursement was due, together with all costs and reasonable attorneys' fees (at all trial and appellate levels) incurred in connection therewith. Calmil shall be entitled to pursue any or all available remedies to enforce the lien and collect the amounts due, including without limitation foreclosure of the lien or an action to collect the indebtedness.

If Calmil fails to maintain and repair any driveways, roads, access ways, sidewalks, walkways, exits and entrances serving the Rock RDP 1 Property so that they shall at all times be in good and operable condition and in compliance with all applicable governmental codes and regulations or, if Calmil shall fail to perform its' obligations related to the Utility Easement Area within the time specified herein, Rock RDP 1 shall have the right after twenty (20) days written notice to Calmil or, in case of an emergency, at any time, to undertake reasonable construction, repairs and maintenance and Calmil shall reimburse Rock RDP 1 for all reasonable costs and expenses related to Rock RDP 1's construction, maintenance and repair activities within thirty (30) days of receipt of an invoice for such costs. In the event Calmil does not pay when due any Rock RDP 1's costs and expenses, Rock RDP 1 shall be entitled to execute and record among the Public Records of Orange County, Florida a claim of lien encumbering the Calmil Property. The claim of lien shall be in an amount equal to the reimbursement due to Rock RDP 1, plus interest at the highest rate allowed by law from the date said reimbursement was due, together with all costs and reasonable attorneys' fees (at all trial and appellate levels) incurred in connection therewith. Rock RDP 1 shall be entitled to pursue any or all available remedies to enforce the lien and collect the amounts due, including without limitation foreclosure of the lien or an action to collect the indebtedness.

- 8. Estoppel Certificates. In the event that Calmil or Rock RDP 1, or their respective successors or assigns, shall desire to inquire as to the status of any party's performance of or compliance of the obligations imposed in this Agreement, the inquiring party shall be entitled to demand and receive from the other party within ten (10) days prior written notice, an estoppel certificate which states whether any party hereto is in default of its obligations hereunder and whether, when, and to what extent any monies may be due to from one party to another hereunder. Any such written demand must be forwarded pursuant to the notice provision hereunder.
- 9. <u>Incidental Rights</u>. Except as otherwise specifically provided or limited herein, the easements, rights and obligations hereby created, granted and conveyed include all incidental rights reasonably necessary for the use and enjoyment of the easements granted herein and for their intended purposes.
- 10. No Common Ownership. Notwithstanding anything herein set forth, the parties hereto expressly negate any construction of this Agreement which implies the joint or common ownership of any part of Calmil Property or the Rock RDP 1 Property, or which implies the creation, establishment or existence of any partnership, joint venture or other such scheme of common ownership or common operation of the respective properties.

- Indemnification, Rock RDP 1, its successors and assigns, shall indemnify and hold Calmil, its successors and assigns, harmless from and against any and all loss, cause, damage, expense, injury, claim and liability (including reasonable attorney's fees and paraprofessional fees at any pre-trial, trial or appellant proceedings) which Calmil, its successors and assigns, may suffer or incur as the result of, arising out of, or attributable to, use of the Calmil Property by Rock RDP 1, its successors and assigns, or the exercise of any rights granted to Rock RDP 1 herein, except to the extent resulting from the negligent, intentional or willful acts or omissions of the party being indemnified, its contractors, employees, agents or others acting by, through, under or on behalf of such party. Calmil, its successors and assigns, shall indemnify and hold Rock RDP 1, its successors and assigns, harmless from and against any and all loss, cause, damage, expense, injury, claim and liability (including reasonable attorney's fees and paraprofessional fees at any pre-trial, trial or appellant proceedings) which Rock RDP 1, its successors and assigns, may suffer or incur as the result of, or arising out of, or attributable to, use of the Rock RDP 1 Property by Calmil, its successors and assigns, or the exercise of any rights granted to Calmil herein, except to the extent resulting from the negligent, intentional or willful acts or omissions of the party being indemnified, its contractors, employees, agents or others acting by, through, under or on behalf of such party.
- 12. <u>No Merger.</u> If any party shall become the fee owner of any part of the subject real property who is also the holder of a beneficial easement interest created hereunder, said fee interest and beneficial interest shall not merge into the fee estate.
- 13. Attorney's Fees. In the event of a dispute arising under this Agreement, the prevailing party shall be entitled to recover its reasonable attorneys' fees and costs, including attorneys' fees and costs incurred in litigating entitlement to attorneys' fees and costs, as well as in determining or quantifying the amount of recoverable attorneys' fees and costs. The reasonable costs to which the prevailing party is entitled shall include costs that are taxable under any applicable statute, rule or guideline, as well as non-taxable costs, including, but not limited to, costs of investigation, copying costs, electronic discovery costs, telephone charges, mailing and delivery charges, information technology support charges, consultant and expert witness fees, travel expenses, court reporter fees, and mediator fees, regardless of whether such costs are otherwise taxable. The party prevailing in said legal proceedings shall be entitled to recover from the party not prevailing in said legal proceedings reasonable attorneys' fees and court costs incurred incidental thereto, including, without limitation, fees and costs incurred in appellate proceedings and in bankruptcy.
- 14. Applicable Law. This Agreement shall be governed by and construed in accordance with the laws of the State of Florida, exclusive of any conflict of laws provisions thereof that would apply the laws of another jurisdiction. Calmil and Rock RDP 1 hereby submit to the jurisdiction of, and agree that venue for actions hereunder shall be, in the Circuit Court of the State of Florida sitting in Orange County, Florida, and Calmil and Rock RDP 1 each hereby waive any objection to venue in such courts and any objection to any action or proceeding on the basis of forum non-conveniens.
- 15. Entire Agreement. This Agreement contains the entire agreement between Rock RDP 1 and Calmil with respect to the subject matter contained herein, and no representations, inducements, promises or agreements, oral or otherwise, not embodied herein shall be binding upon the owners hereto.

- Notices. Any notice required or permitted to be given hereunder shall be in writing and shall be (i) personally delivered, (ii) transmitted by postage pre-paid registered mail, or (iii) transmitted by a recognized overnight courier service to Calmil and Rock RDP 1, their successor and or assigns, to the address used by the Orange County Tax Collector, or any successor thereto, for the delivery of invoices for the payment of ad valorem property taxes. Any notice required or given hereunder shall only be deemed as having been received (i) upon actual receipt if delivered by hand, (ii) the day following deposit thereof if sent via nationally recognized overnight courier service for next day delivery or (iii) upon receipt or refusal if sent by certified mail, return receipt requested or upon refusal to accept delivery from any overnight courier. Either party may, from time to time, give notice to the other party of some other address to which notices or other communications to such party shall be sent, in which event, notices or other communications to such party shall be sent to such address. If any notice or other communication described in this Agreement is sent by either party hereto to the other and such notice or other communication was not sent in accordance with the foregoing terms of this Section but was, in fact, actually received by the other party, then such notice or other communication shall be deemed to have been duly given by the sending party and received by the recipient party effective as of such date of actual receipt. If any notice is tendered and is refused by the intended recipient, such notice shall nonetheless be considered to have been given and shall be effective as of the date provided herein.
- 17. Force Majeure. Except with respect to any failure to pay any sum due hereunder as a result of bankruptcy, insolvency or refusal or inability to pay, if either party shall be delayed or hindered in whole or in part, or prevented from, the performance of any non-monetary covenant or obligation hereunder as a result of acts of God, fire or other casualty, earthquake, hurricane, flood, epidemic, landslide, enemy act, acts of war, acts of terrorism or bioterrorism, riot, intervention by civil or military authorities of government, insurrection or other civil commotion, general unavailability of certain materials, strikes, boycotts, lockouts, labor disputes or work stoppage beyond the control of either party hereto, then the performance of such covenant or obligation, shall be excused for the period of such delay, hindrance or prevention and the period of the performance of such covenant or obligation shall be extended by the number of days equivalent to the number of days of such delay, hindrance or prevention. The delayed or hindered party shall promptly notify the other party of any force majeure event affecting the delayed or hindered party's performance under this Agreement.
- 18. <u>Severability</u>. The invalidity or unenforceability of any provision or portion of this Agreement will not affect the validity of the remainder of this Agreement. If any provision of this Agreement is determined to be invalid or unenforceable, Calmil and Rock RDP 1 will negotiate in good faith to agree upon substitute provisions to carry out the purpose and intent of the invalid or unenforceable provision.
- 19. <u>Miscellaneous</u>. With or without specific reference thereto, the conveyance of an interest in all or any portion of either Calmil Property or the Rock RDP 1 Property shall be subject to the benefits and burdens of the easements hereby created, granted and conveyed to the same extent as if all the terms and conditions of this Agreement were set forth in full in such conveyance. The easements, covenants, agreements, obligations and conditions contained herein shall not be personal, but shall run with the land and shall be binding upon and inure to the benefit of the owners of all portions of Calmil Property and the Rock RDP 1 Property, the successors and assigns of said owners, and the tenants, agents, licensees, guests and invitees of each of them. The caption included herein are for reference only and should not be used in construing any of the terms hereof.

in the presence of:	CALMIL
Calmil Investment Group, LP	<i>,</i>
Frank J. Chin	By: Author June Kenneth L. Jureit, General Partner
Print: Kotchyn Bayer Frank J. Chin Print: Frank J. Chin	Kenneth L. Jureit as Trustee of THE KENNETH LEE JUREIT LIVING TRUST dated February 12, 2002, as amended
Print: Katelyn Rayer	
2014, by Kenneth L. Jureit, as trustee and	nowledged before me this 28th day of August, das general partner of Calmil Investment Group, who is personally known to me or who presented NOTARY PUBLIC
My commission expires: w	Print Name: Ross_
•	My Commission Expires November 21, 2018 AUBLIC AUBLI

Rock RDP 1

Rock RDP 1, LLC, A Florida limited liability company

By: ROCK CELLULAR, LLC,

A Florida limited liability company,

As it's sole Manager

By:

ROCK PROPERTIES, INC.,

a Florida corporation, as its sole Manager

Title: President

STATE OF FLORIDA) COUNTY OF ORANGE)

The foregoing instrument was acknowledged before me this May of Schember, 2014, by Grey 1. 2 nekeron, as Westland of Rock RDP 1, LLC, a Florida limited liability company, on behalf of the limited liability company, who is personally known to me or who presented a valid driver's license as identification.



NOTARY PUBLIC STATE OF FLORIDA

Print Name: _

My commission expires:

EXHIBIT "A" ROCK RDP 1PROPERTY

EXHIBIT "A"

ROCK RDP 1 PROPERTY LEGAL DESCRIPTION

THE WEST 127.94 FEET OF THE S.W. 1/4 OF THE S.E. 1/4 OF SECTION 5, TOWNSHIP 21 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA, LYING SOUTH OF U.S. HIGHWAY 441 AND NORTH OF THE SEABOARD COASTLINE RAILROAD RIGHT-OF-WAY, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE INTERSECTION OF THE SOUTH RIGHT-OF-WAY LINE OF U.S. HIGHWAY 441 (163 FEET WIDE) WITH THE WEST BOUNDARY OF THE S.W. 1/4 OF THE S.E. 1/4 OF SAID SECTION 5, SAID POINT BEING ON THE EAST RIGHT-OF-WAY LINE OF LAKE DOE BOULEVARD (60 FEET WIDE); THENCE SO0°54'42"W ALONG SAID WEST BOUNDARY AND SAID EAST RIGHT-OF-WAY LINE, A DISTANCE OF 300.39 FEET TO THE NORTH RIGHT-OF-WAY LINE OF THE SEABOARD COASTLINE RAILROAD (120 FEET WIDE); THENCE DEPARTING SAID WEST BOUNDARY AND EAST RIGHT-OF-WAY LINE, PROCEED S78°27'33"E ALONG SAID NORTH RIGHT-OF-WAY LINE, A DISTANCE OF 130.18 FEET; THENCE DEPARTING SAID NORTH RIGHT-OF-WAY LINE, PROCEED NO0°54'42"E, A DISTANCE OF 267.56 FEET TO A POINT ON THE AFOREMENTIONED SOUTH RIGHT-OF-WAY LINE OF U.S. HIGHWAY 441; THENCE N65°08'03"W ALONG SAID RIGHT-OF-WAY LINE, A DISTANCE OF 140.00 FEET TO THE POINT OF BEGINNING.

1105 S.E. 3rd Avenue
 Ocala, Florida 34471
 Ph. (352) 622-9214
 Lic. Bus. #4074

SCALE

DATE 6-02-14

EXHIBIT "B" CALMIL PROPERTY

EXHIBIT "B"

CALMIL PROPERTY LEGAL DESCRIPTION

THE S.W. 1/4 OF THE S.E. 1/4 OF SECTION 5, TOWNSHIP 21 SOUTH, RANGE 28 EAST, ORANGE COUNTY, FLORIDA, LYING SOUTH OF U.S. HIGHWAY 441 AND NORTH OF THE SEABOARD COASTLINE RAILROAD RIGHT-OF-WAY EXCEPT THE WEST 127.94 FEET THEREOF.

ROGERS ENGINEERING, LLC
Civil Engineering & Land Surveying

1105 S.E. 3rd Avenue
Ocala, Florida 34471
Ph. (352) 622-9214
Lic. Bus. #4074

SCALE

DATE 6-02-14

EXHIBIT "C" UTILITY EASEMENT AREA

EXHIBIT "C" UTILITY EASEMENT

LEGAL DESCRIPTION - UTILITY EASEMENT

COMMENCE AT THE INTERSECTION OF THE SOUTH RIGHT-OF-WAY LINE OF U.S. HIGHWAY 441 (163 FEET WIDE) WITH THE WEST BOUNDARY OF THE S.W. 1/4 OF THE S.E. 1/4 OF SAID SECTION 5, SAID POINT BEING ON THE EAST RIGHT-OF-WAY LINE OF LAKE DOE BOULEVARD (60 FEET WIDE); THENCE SO0°54'42"W ALONG SAID WEST BOUNDARY AND SAID EAST RIGHT-OF-WAY LINE, A DISTANCE OF 220.39 FEET TO THE POINT OF BEGINNING; THENCE DEPARTING SAID RIGHT-OF-WAY LINE, PROCEED S78°27'33"E, A DISTANCE OF 130.18 FEET TO A POINT ON THE EAST PROPERTY LINE OF THE PARENT PARCEL; THENCE SO0°54'42"W ALONG SAID EAST PROPERTY LINE, A DISTANCE OF 24.42 FEET; THENCE DEPARTING SAID EAST PROPERTY LINE, PROCEED N78°27'33"W, A DISTANCE OF 130.18 FEET TO A POINT ON THE AFOREMENTIONED EAST RIGHT-OF-WAY LINE OF LAKE DOE BOULEVARD; THENCE N00°54'42"E ALONG SAID RIGHT-OF-WAY LINE, A DISTANCE OF 24.42 FEET TO THE POINT OF BEGINNING.

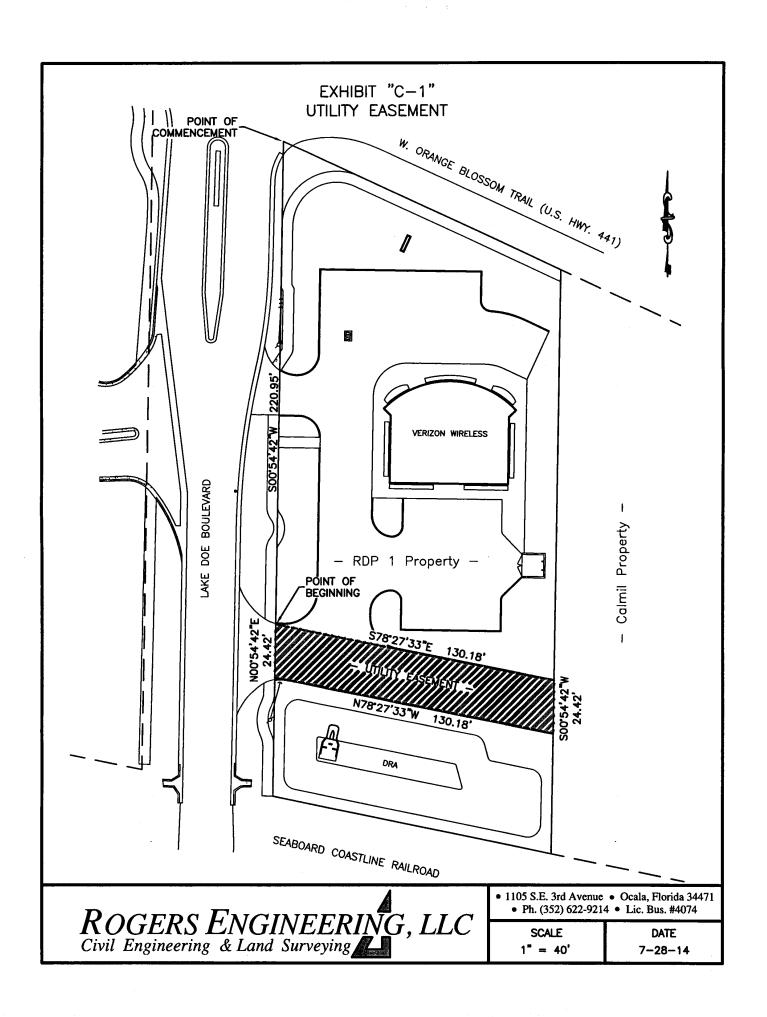


EXHIBIT "D" SEWER LINE EASEMENT AREA

EXHIBIT "D" SEWER EASEMENT

LEGAL DESCRIPTION - SEWER EASEMENT

A 10 FEET WIDE EASEMENT, LYING 5 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

COMMENCE AT THE INTERSECTION OF THE SOUTH RIGHT-OF-WAY LINE OF U.S. HIGHWAY 441 (163 FEET WIDE) WITH THE WEST BOUNDARY OF THE S.W. 1/4 OF THE S.E. 1/4 OF SAID SECTION 5, SAID POINT BEING ON THE EAST RIGHT-OF-WAY LINE OF LAKE DOE BOULEVARD (60 FEET WIDE); THENCE SO0°54'42"W ALONG SAID WEST BOUNDARY AND SAID EAST RIGHT-OF-WAY LINE, A DISTANCE OF 219.47 FEET TO THE POINT OF BEGINNING OF SAID CENTERLINE; THENCE DEPARTING SAID RIGHT-OF-WAY LINE, PROCEED S89°59'36"E, A DISTANCE OF 127.96 FEET TO THE POINT OF TERMINUS, SAID POINT BEING ON THE EAST PROPERTY LINE OF THE PARENT PARCEL, LENGTHENING AND SHORTENING THE SIDE LINES TO INTERSECT THE EAST RIGHT-OF-WAY LINE OF LAKE DOE BOULEVARD AND THE EAST PROPERTY LINE OF THE PARENT PARCEL.

ROGERS ENGINEERING, LLC
Civil Engineering & Land Surveying

1105 S.E. 3rd Avenue
 Ocala, Florida 34471
 Ph. (352) 622-9214
 Lic. Bus. #4074

SCALE

DATE 7-28-14

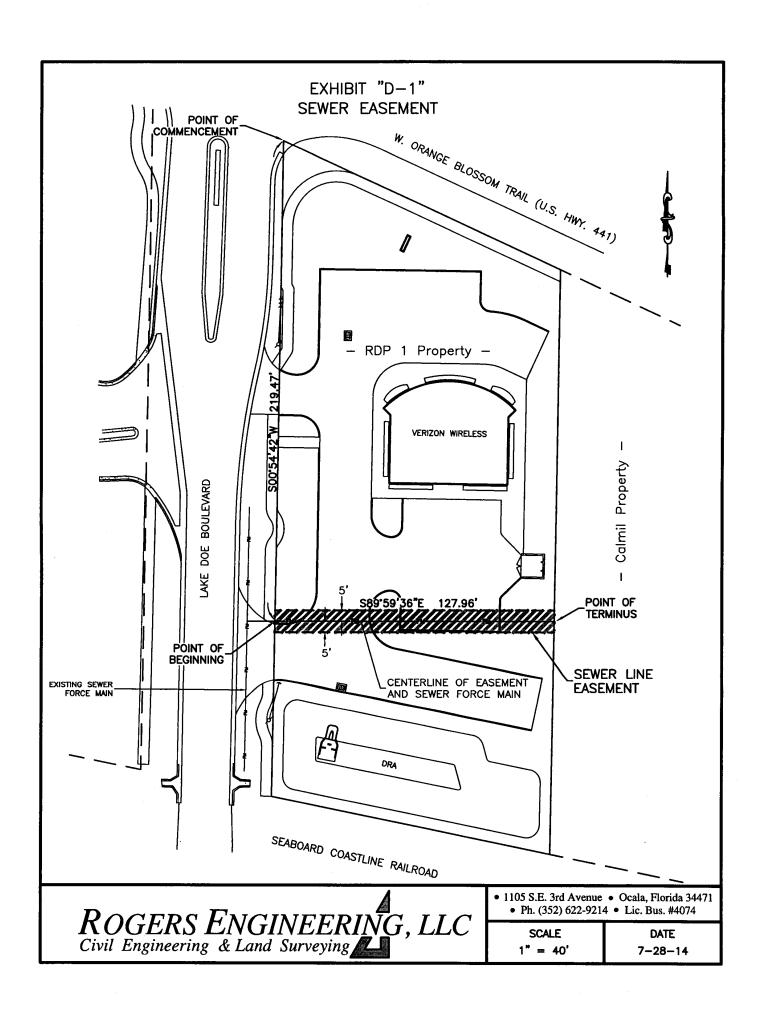
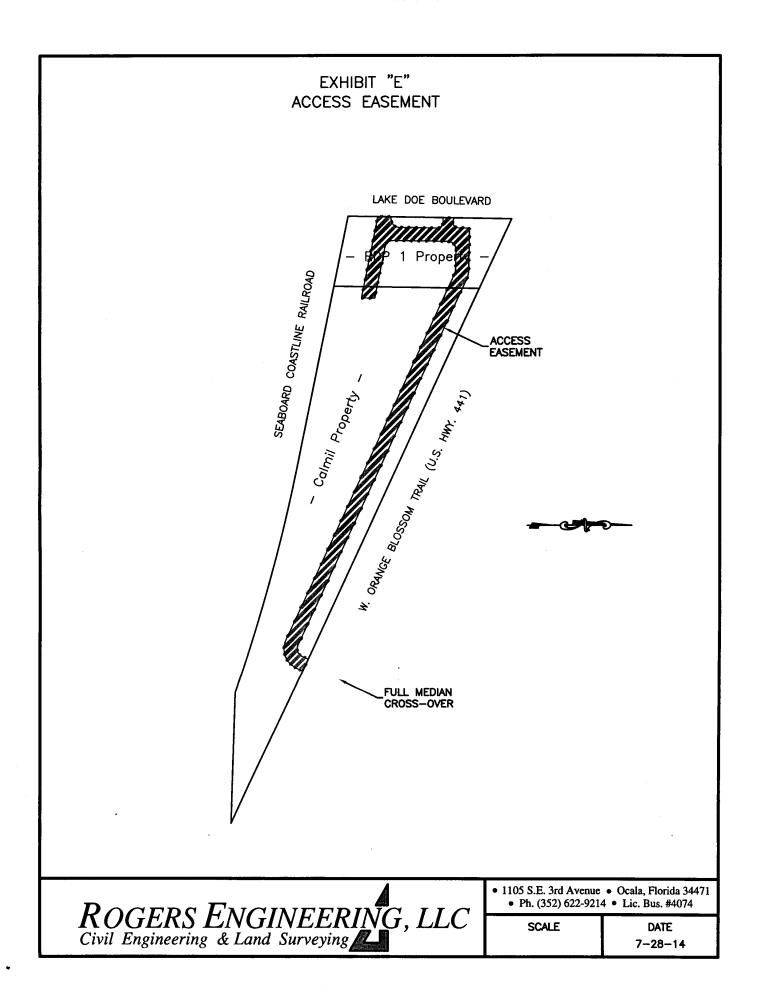
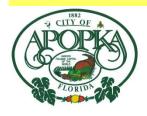


EXHIBIT "E"

MUTUAL ACCESS, INGRESS AND EGRESS EASEMENT AREA





CITY OF APOPKA PLANNING COMMISSION

X PUBLIC HEARING

SITE PLAN

SPECIAL REPORTS

X OTHER: Plat

MEETING OF: August 14, 2018

FROM: Community Development

EXHIBITS: Vicinity Map

Aerial Map

Plat

Final Development Plan

SUBJECT: PLAT - BRIDLEWOOD SUBDIVISION (FKA EQUESTRIAN

CENTER SUBDIVSION)

REQUEST: RECOMMEND APPROVAL OF THE PLAT FOR BRIDLEWOOD

SUBDIVISION (FKA EQUESTRIAN CENTER SUBDIVISION)

SUMMARY:

OWNER: Laura R. Murphy

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

LOCATION: 359 West Lester Road

PARCEL ID NUMBER: 28-20-28-0000-00-060

EXISTING USE: Errol Equestrian Center

FUTURE LAND USE: Residential Low Suburban

ZONING DISTRICT: R-1 (Single Family Residential) Zoning District

MINIMUM LOT WIDTH: 75 feet typical lot width

MINIMUM LOT SIZE: 8,000 square feet

TRACT SIZE: 19.94 +/- acres

PROPOSED DEVELOPMENT: 52 Single Family Residences

PROPOSED DENSITY: 2.6 DU/AC (3.5 DU/AC Maximum)

DISTRIBUTION

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

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

G:\CommDev\PLANNING ZONING\SUBDIVISION PLANS\2018\Bridlewood (Equestrian Center) Subdivision FDP\3 Planning Com Hearing

RELATIONSHIP TO ADJACENT PROPERTIES:

Direction	Future Land Use	Zoning	Present Use
North (City)	Mixed Use	M-EC	Hooper's Landscape Nursery
East (City)	Mixed Use	M-EC	Vacant Land
South (City)	Institutional/Public Use	R-3	Vacant Land
West (City)	Rural	A-2	St. Johns River Water Mgt. District

PROJECT SUMMARY: The Bridlewood Subdivision – Plat involves the development of 52 single family residential lots. The minimum typical lot width is 75 feet with a minimum lot size of 8,000 square feet. The required minimum living area for the subdivision is 1,500 square feet as set forth in Chapter 2 of the Land Development Code for single-family lots located within the R-1 zoning. The minimum setbacks applicable to this project are:

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

^{*}Front-entry garage must be setback 30 feet.

<u>ACCESS</u>: Ingress/egress access points for the development will be via full access onto Lester Road. A future connection occurs through a stub-out street at the northwest corner of the project.

STORMWATER: The stormwater management system includes an on-site retention area and located on the north portion of the project site. The stormwater pond design meets the City's Land Development Code requirements.

RECREATION: The applicant is providing 0.47 acre/approximately 20,473 square feet of recreation space that includes a playground.

SCHOOL CAPACITY REPORT: A school concurrency mitigation agreement has been executed and a copy of the letter from Orange County Public Schools (OCPS) has been supplied to Staff.

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

<u>CONDITION OF APPROVAL</u>: The Plat will be revised to assign maintenance and ownership of the L & F five-foot wide easement (Landscape and Fence) to the HOA; and re-number the notes on the front sheet.

PUBLIC HEARING SCHEDULE:

August 14, 2018 – Planning Commission, 5:30 p.m. September 5, 2018 – City Council, 1:30 p.m.

RECOMMENDATION ACTION:

The **Development Review Committee** recommends approval of the Bridlewood Subdivision – Plat, subject to the findings of this staff report.

Recommended Motion: Recommend the approval of the Bridlewood Subdivision – Plat subject to the Conditon of Approval, findings of the staff report and final review by the City surveyor and city engineer prior to recording the plat.

Planning Commission Role: The role of the Planning Commission for this development application is to advise the City Council to approve or deny based on consistency with the 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.

PLANNING COMMISSION – AUGUST 14, 2018 BRIDLEWOOD SUBDIVISION – PLAT PAGE 4

Project Name: Bridlewood Subdivision Plat

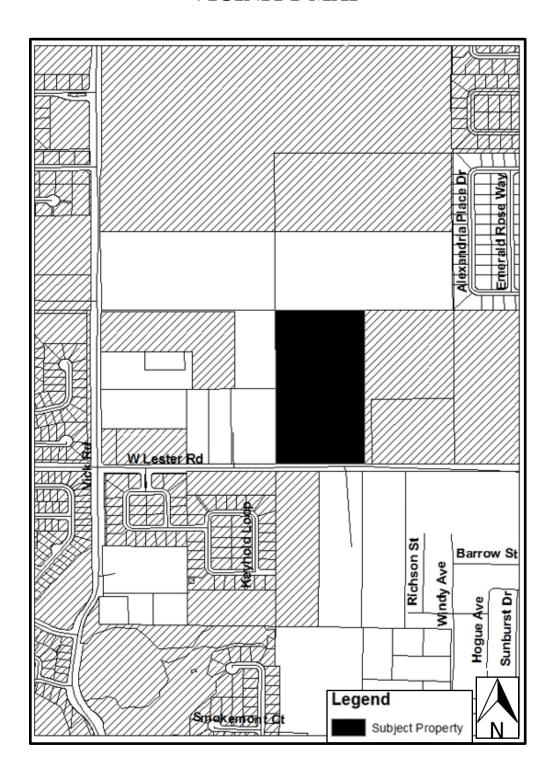
Property Owner: Laura R. Murphy

Applicant: Appian Engineering c/o Luke Classon, P.E.

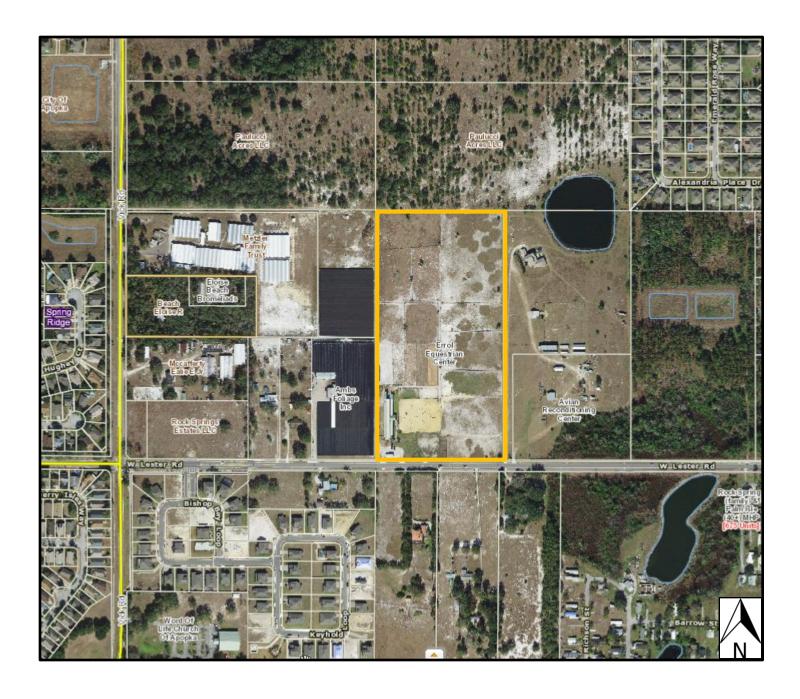
Total Site Area: 19.94 +/-

Parcel ID #: 28-20-28-0000-00-060

VICINITY MAP



AERIAL MAP



W Lester Road W Lester Road E Welch Road DOWN W Losser Road E Votaw Road E Votaw Road E Main Street C S.R. 436 (U.S. 441)

GRAPHIC SCALE (IN FEET) 1 inch = 100 ft.

Notes

1. Bearings shown hereon are based on the South line of the Southwest 1/4 of Section 28, Township 20 South, Range 28 East being assumed as South 89°47'43" East.

2. All lines are radial to curves unless otherwise noted as non radial (NR).

Note: See Sheets 2 and 3 for Abbreviations and Legend

3. Tracts A and B is a Wall and Landscape area and is owned and maintained by the Bridlewood Homeowners Association, Inc.

4. Tract C is a Landscape Entry area and is owned and maintained by the Bridlewood Homeowners Association. Inc.

5. Tract D is Stormwater Pond area and is owned and maintained by the Bridlewood Homeowners Association. Inc.

6. Tract E is a Park area and is owned and maintained by the Bridlewood Homeowners Association. Inc.

7. Tract F is a Lift Station area and shall be owned and maintained by the City of

Apopka, Florida.

8. The Drainage Easements are hereby dedicated to the Bridlewood Homeowners

Association, Inc. and shall be maintained by the individual lot owners; provided, however, if the lot owners fail to maintain, then Bridlewood Homeowners Association, Inc. shall have the right to maintain pursuant to the Declaration of Covenants and Restrictions for Bridlewood Subdivision. No obstructions, modifications or changes to the swales within any drainage easement areas are allowed by the lot owners, their guests or invitees.

9. The Utility Easements are hereby dedicated to the City of Apopka, Florida and the perpetual use of the public.

10. All platted 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 services shall interfere with the facilities and services of an electric, telephone, gas, or other public utility. In the event a cable television company damages the facilities of a public utility, it shall be solely responsible for the damages. This paragraph shall not apply to those private easements granted to or obtained by a particular electric, telephone, gas, or other public utility. Further, such construction, installation, maintenance, and operation shall comply with the National Electrical Safety Code as adopted by the Florida Public Service Commission.

16. An emergency access easement to the retention ponds and all drainage easements shown hereon is hereby granted to the City of Apopka, Florida for emergency maintenance purposes. An emergency access easement will not impose any obligation, burden, or responsibility of liability upon the City of Apopka, Florida to enter upon the property it does not own or take any action to maintain or repair the drainage system on the property

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.



Benchmark Surveying & Mapping, LLC
Certificate of Authorization Number - LB-7874

Post Office Box 771065, Winter Garden, Florida 34777-1065 3110 Red Fox Run, Kissimmee, Florida 34746 (407) 654-6183 www.benchmarksurveyingandmapping.com

Bridlewood Subdivision

City of Apopka, Orange County, Florida Section 28, Township 20 South, Range 28 East

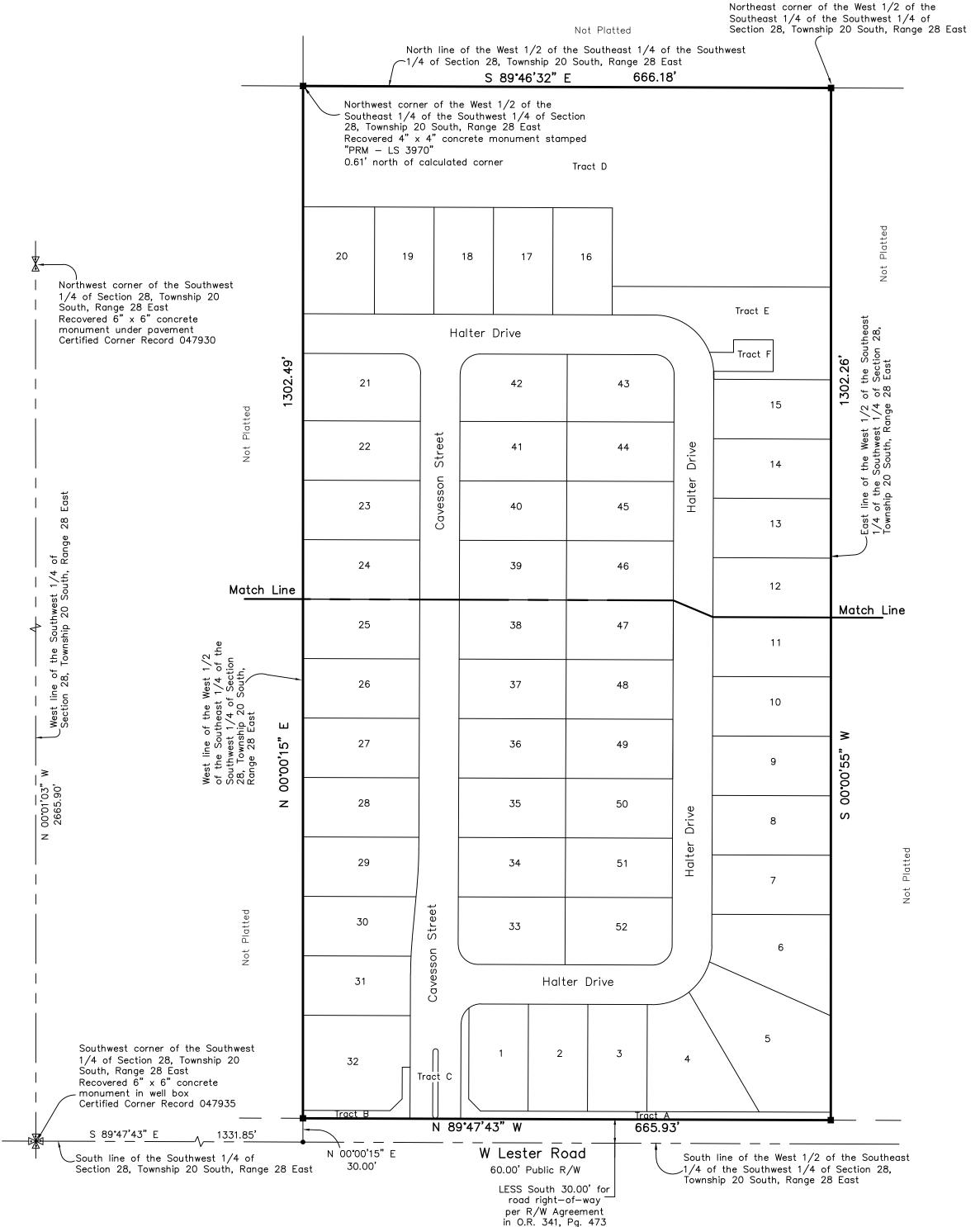
Property Description

The West 1/2 of the Southeast 1/4 of the Southwest 1/4 of Section 28, Township 20 South, Range 28 East, Orange County, Florida, LESS all that portion lying within the road right—of—way.

Being more particularly described as follows:

COMMENCE at the Southwest corner of the Southwest 1/4 of Section 28, Township 20 South, Range 28 East, Orange County, Florida, thence South 89°47′43" East, along the South line of the Southwest 1/4 of said Section 28, a distance of 1331.85 feet; thence departing said South line, North 00°00′15" East, along the West line of the West 1/2 of the Southeast 1/4 of the Southwest 1/4 of said Section 28, a distance of 30.00 feet to a point on the North right of way line of West Lester Road and POINT OF BEGINNING; thence continue North 00°00′15" East, along the West line of the West 1/2 of the Southeast 1/4 of the Southwest 1/4 of said Section 28, a distance of 1302.49 feet to the Northwest corner of the West 1/2 of the Southeast 1/4 of the Southwest 1/4 of said Section 28; thence South 89°46′32" East, along the North line of the West 1/2 of the Southeast 1/4 of the Southwest 1/4 of said Section 28, a distance of 666.18 feet to the Northeast corner of the West 1/2 of the Southwest 1/4 of the Southwest 1/4 of said Section 28; thence South 00°00′55" West, along the East line of the West 1/2 of the Southeast 1/4 of the Southwest 1/4 of said Section 28, a distance of 1302.26 feet to a point on the North line of West Lester Road; thence North 89°47′43" West, along said North right of way line, a distance of 665.93 feet to the POINT OF BEGINNING.

Contains 19.91 acres, more or less.



Sheet	1	of	3	PLAT
	•			BOOK

OOK PAGE

Bridlewood Subdivision

DEDICATION

KNOW ALL MEN BY THESE PRESENTS, That the undersigned being the owner in fee simple of the lands described in the foregoing caption to this plat, does hereby dedicate said lands and plat for the uses and purposes therein expressed and dedicates the street right of way, Tract F (lift station) and the utility easements to the City of Apopka, Florida and the perpetual use of the public.

IN WITNESS WHEREOF, the undersigned has caused these presents to be signed by the officer named below on _______.

AVEX HOMES, LLC, a Florida limited liability company

Print name:	Title:	-
Signed in the presence of:		
Sign Name:	Sign Name:	
	<u> </u>	

STATE OF ______

The foregoing instrument was acknowledged before me this _____day of ______, 2018, by ______ of AVEX HOMES, LLC, a Florida limited liability company on behalf of the company. He [is personally known to me] [has produced

Notary Signature	
Printed Notary Name	
Commission #	
Expiration Date	

CERTIFICATE OF SURVEYOR

KNOW ALL MEN BY THESE PRESENTS, That the undersigned, being a licensed and Professional Land Surveyor, does hereby certify that on October 16, 2017, he completed the survey of said lands shown in the foregoing plat and said survey was made under his responsible direction and that the 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.

Signed _____ Date ____ Billy Joe Jenkins, Jr. Florida Professional Surveyor and Mapper License Number 5205

Benchmark Surveying and Mapping, LLC Certificate of Authorization Number 7874 3110 Red Fox Run, Kissimmee, Florida 34746 P.O. Box 771065, Winter Garden, Florida 34777-1065

CERTIFICATE	OF	APPROVAL
BY MUN	ICIP	ALITY

DI MONON ALITI	
THIS IS TO CERTIFY, that onapproved the foregoing plat.	the City Council
Mayor	Date

CERTIFICATE OF APPROVAL BY CITY ENGINEER

Examined and approved:

City Engineer Date

CERTIFICATE OF APPROVAL BY THE DEVELOPMENT REVIEW BOARD

THIS IS TO CERTIFY, That on______ the foregoing plat was approved by the Apopka Land Development Review Committee

Chairman

CERTIFICATE OF REVIEW BY CITY SURVEYOR

Pursuant to Section 177.081, Florida Statutes, I have reviewed this plat for conformity to Chapter 177 Part I of the Florida Statutes and that said plat complies with the technical requirements of that chapter; provided however, that my review does not include field verification of any of the coordinates, points or measurements shown on this plat.

Signed:
Printed name: Ralph A. Nieto, P.S.M.
NIETO WHITTAKER SURVEYING, LLC
Registration Number 6025

CERTIFICATE OF COUNTY COMPTROLLER

I HEREBY CERTIFY that the foregoing plat was recorded in the Orange County Official Records on _____ as File No. ____

County Comptroller in and for Orange County, Florida.

PLAT Sheet 2 of 3 Bridlewood Subdivision BOOK **PAGE** City of Apopka, Orange County, Florida Section 28, Township 20 South, Range 28 East 7.50' U. & D. Esmt. —S 89°47'43" E S 89°47'43" E---Match Line N 89°47'43" W-S 89°47'43" E GRAPHIC SCALE 25.00' | 25.00' Match Line 25 Abbreviations and Legend R/W denotes right of way (IN FEET) 11 1 inch = 50 ft.O.R. denotes Official Records Book Pg. denotes Page(s) 5.00' L. & F. Esmt. ——135.00**'**— 7.50' U. & D. Esmt.-15.00' U. & D. Esmt. PRM denotes permanent reference monument ─_N 89°47'43" W── — 5.00' L. & F. Esmt. denotes permanent control point denotes Professional Surveyor and Mapper 10.00' U. Esmt. 10.00' U. Esmt. denotes Licensed Business denotes Land Surveyor Northwest corner of the Southwest −N 89**°**47'43" W− -√S 89°47'43" E--S 89*****47'43" E — — 1/4 of Section 28, Township 20 –135.00**'**— → 5.00' L. Esmt. denotes not radial line South, Range 28 East Recovered 6" x 6" concrete ── N 89°47'43" W ── ─ denotes point of intersection monument under pavement U. & D. Esmt. Certified Corner Record 047930 P.C. denotes point of curvature P.T. denotes point of tangency denotes point of compound curvature — N 89°47'43" W— —S 89°47'43" E S 89°47'43" E P.R.C. denotes point of reverse curvature U. Esmt. denotes Utility Easement U. & D. Esmt. denotes Utility Drainage Easement 28 L. Esmt. denotes Landscape Easement L. & F. Esmt. denotes Landscape and Fence Easement 5.00' — I — I S 89°47'43" E— I ─ S 89°47'43" E ─ denotes Set 4" x 4" concrete monument and ः ५५% disk stamped 'PRM PSM 5205', unless otherwise noted 10.00' U. & D. Esmt.
 - - 149.82'-- - denotes set nail and disk stamped 29 ├─ 10.00' U. Esmt. 'PCP - PSM 5205' 25.00' | 25.00' | denotes change of direction 5.00' L. Esmt. → | C denotes centerline ─_N 89°47'43" W − S 89*****47'43" E*─*─ → 5.00' L. Esmt. - 135.00' U. & D. Esmt. the S Section East ────────────────N 89°47′43" W ──── -|10.00' U. Esmt. Line Table of of 28 Line Bearing Distance 30 L1 S 05°17'03" W 10.60' 52 25.00' 25.00' 5 L2 N 45°12'17" E 21.21' L3 S 00°12'17" W 40.00' Detail 5.00' L. Esmt. → L4 S 89°47'43" E 10.00' L5 S 00°12'17" W 65.00' −N 89°47'43" W ── L11 N 00°12'17" E 1.00' West line of 1/4 of the S Township 20 L12 N 00°12'17" E 131.50' 10.00' 5.00' S 89°47'43" E 220.00' L13 S 00°12'17" W 121.50' - 43.00' 5.00' L. & F. Esmt. L14 N 00°12'17" E 121.50' U. & D. Esmt. Halter Drive 7.50' U. & D. Esmt.—— N 89°47'43" W **–** 10.00' 273.00' Curve Table
Number Radius Delta Length Chord Chord Bearing S 89°47'43" E 216.00' 10.00' 60.00' 75.00 525.00' 5°04'47" 46.54' 46.53' N 02°44'40" E — N 89°47′43″ W — . & D. Esmt. 50.00' 90'00'00" 78.54' 70.71' N 45'12'17" E
 C4
 500.00'
 5°04'47"
 44.33'
 44.31'
 S 02°44'40" W

 C5
 500.00'
 2°32'32"
 22.19'
 22.18'
 S 01°28'33" W

 C6
 500.00'
 2°32'14"
 22.14'
 22.14'
 S 04'00'56" W
 -135.45 6.00' 10.00' U. Esmt. 5.00' L. Esmt. 32.00' _32.00' 5.00' L. & F. Esmt. **_**_ 10.00' 10.00 500.00' 5*04'47" 44.33' 44.31' S 02*44'40" W U. & D. Esmt. C8 25.00' 90'00'00" 39.27' 35.36' S 45'12'17" W – 43.00' – 43.00' -C9 25.00' 53'07'48" 23.18' 22.36' S 26'46'11" W 5.00' L. Esmt. 🗕 – C10 25.00' 36'52'12" 16.09' 15.81' S 71'46'11" W C11 25.00' 90°00'00" 39.27' 35.36' N 45°12'17" E 32.00' 75.00' 90°00'00" 117.81' 106.07' N 45°12'17" E 75.00' 38°13'23" 50.03' 49.11' S 71°05'36" W - 7.50' U. & D. Esmt. 75.00' 35°40'56" 46.71' 45.96' S 34°08'26" W
 C15
 75.00'
 16'05'41"
 21.07'
 21.00'
 S 08'15'07" W

 C24
 5.00'
 180'00'00"
 15.71'
 10.00'
 S 89'47'43" E

 C25
 5.00'
 180'00'00"
 15.71'
 10.00'
 N 89'47'43" W
 Ca z N 44°47'43" W 5.00' L. & F. Esmt. Southwest corner of the Southwest 7.50', U. & D. Esmt. 5.00' L. & F. Esmt. 21.21' N 89°47'43" W 1/4 of Section 28, Township 20 South, Range 28 East —110.03**'**—— Recovered 6" x 6" concrete 32.00' 32.00' -10.00' **1**35.00' Tract A Wall and Landscape Area monument in well box Certified Corner Record 047935 Tract B N 89°47'43" W North R/W line Tract C South line of the Southwest 1/4 of W. & L. Area Landscape Area Section 28, Township 20 South, Range 28 East W Lester Road (See Detail) N 89°47'43" W 1331.85' 665.92' _ ______ N 89°47'43" W N 89°47'43" W N 00°00'15" E LESS South 30.00' for South line of the Southwest 1/4 of S 00°00'55" W 60.00' Public R/W Southeast corner of the 30.00' road right—of—way Section 28, Township 20 South, Range 28 East 30.00' Southwest 1/4 of Section 28, per R/W Agreement in O.R. 341, Pg. 473 Township 20 South, Range 28 East -South line of the West 1/2 of the Southeast 1/4 of no monument recovered calculated position per Certified Corner Record 068589 the Southwest 1/4 of Section 28, Township 20 South, Range 28 East Benchmark Surveying & Mapping, LLC Certificate of Authorization Number - LB-7874 Post Office Box 771065, Winter Garden, Florida 34777-1065 3110 Red Fox Run, Kissimmee, Florida 34746 (407) 654-6183

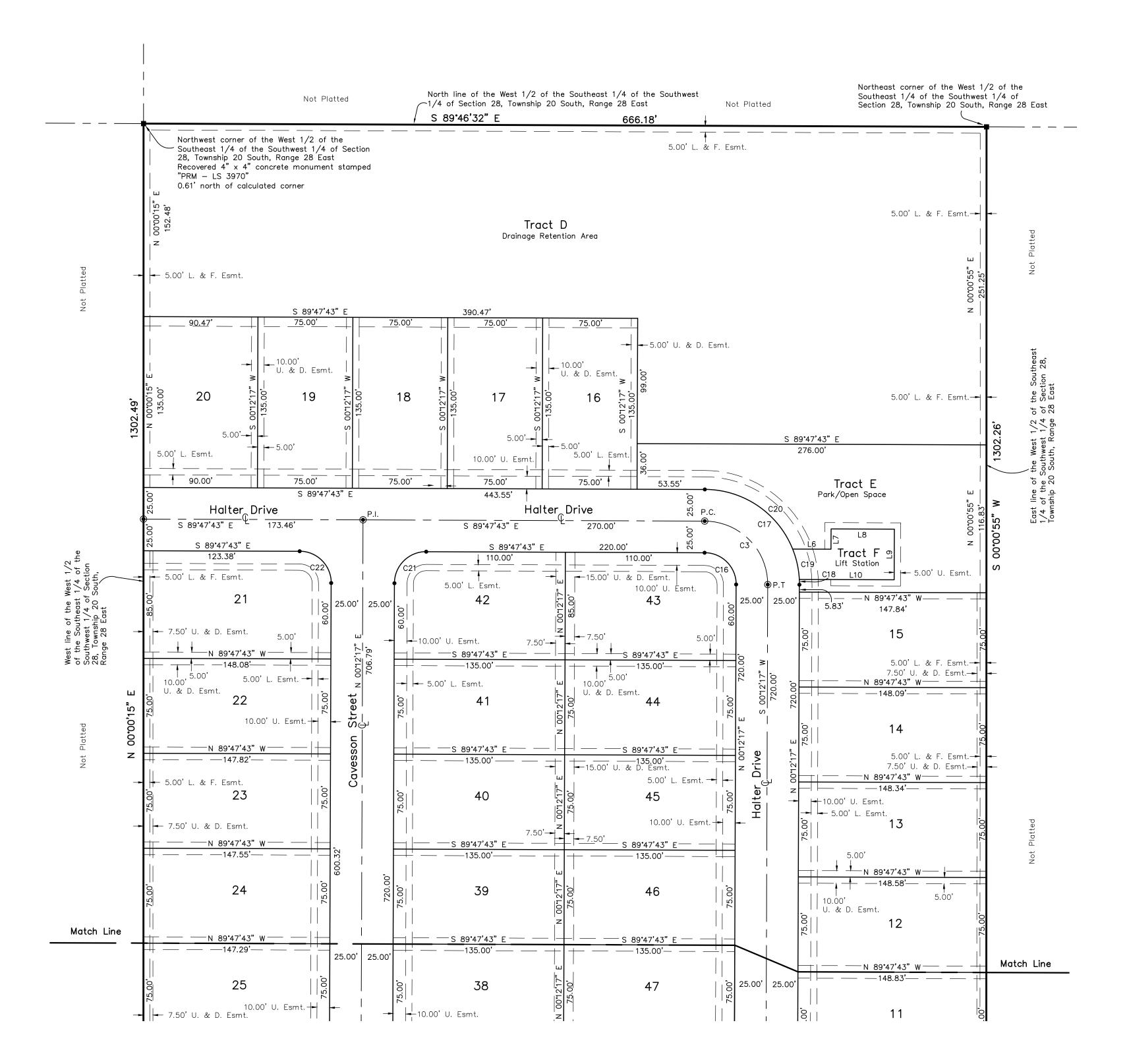
www.benchmarksurveyingandmapping.com

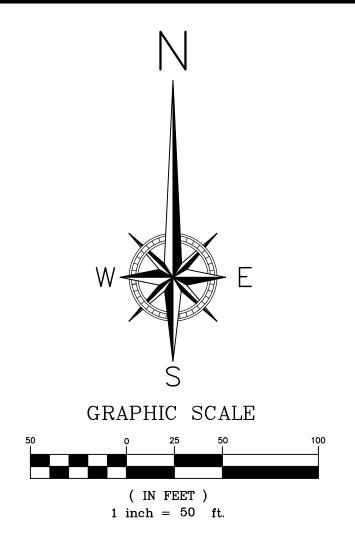
3 PLAT BOOK

PAGE

Bridlewood Subdivision

City of Apopka, Orange County, Florida Section 28, Township 20 South, Range 28 East





Abbreviations and Legend

- R/W denotes right of way
- O.R. denotes Official Records Book
- Pg. denotes Page(s)
- PRM denotes permanent reference monument
- PCP denotes permanent control point
- PSM denotes Professional Surveyor and Mapper
- B denotes Licensed Business
- LS denotes Land Surveyor
- (NR) denotes not radial line
- P.I. denotes point of intersection
- P.C. denotes point of curvatureP.T. denotes point of tangency
- P.C.C. denotes point of compound curvature
- P.R.C. denotes point of reverse curvature
- U. Esmt. denotes Utility EasementU. & D. Esmt. denotes Utility Drainage Easement
- L. Esmt. denotes Landscape Easement
- L. & F. Esmt. denotes Landscape and Fence Easement
- (TYP) denotes typical
- denotes Set 4" x 4" concrete monument and disk stamped 'PRM PSM 5205', unless otherwise noted
- denotes set nail and disk stamped 'PCP - PSM 5205'
- denotes change of direction
- © denotes centerline

Line Table							
Line	Bearing	Bearing Distance					
L6	N 89°47'43" W	30.38'					
L7	S 00°12'17" W	16.00'					
L8	N 89°47'43" W	50.00'					
L9	S 00°12'17" W	40.00'					
L10	N 89°47'43" W	75.00'					

Curve Table						
Number	Radius	Delta	Length	Chord	Chord Bearing	
C3	50.00'	90°00'00"	78.54	70.71	N 44°47'43" W	
C16	25.00'	90°00'00"	39.27	35.36'	N 44°47'43" W	
C17	75.00'	90°00'00"	117.81	106.07	N 44*47'43" W	
C18	75.00'	3 ° 11'18"	4.17'	4.17'	S 01°23'22" E	
C19	75.00'	18 ° 52 ' 27"	24.71	24.59'	S 12°25'15" E	
C20	75.00'	67 ° 56 ' 15"	88.93'	83.81'	S 55°49'36" E	
C21	25.00'	90'00'00"	39.27	35.36'	S 45°12'17" W	
C22	25.00'	90°00'00"	39.27	35.36'	S 44°47'43" E	
C23	25.00'	90°00'00"	39.27	35.36'	S 44°47'43" E	



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FINAL DEVELOPMENT PLAN NARRATIVE:

THE EQUESTRIAN CENTER SUBDIVISION IS MADE UP OF A SINGLE PARCEL AND IS LOCATED OFF OF LESTER ROAD, EAST OF VICK ROAD WITH A PHYSICAL ADDRESS OF 359 W. LESTER ROAD, APOPKA, FL 32712. THE SUBJECT PROPERTY HAS A TOTAL AREA OF 19.94 ACRES AND WILL BE DEVELOPED INTO A 52 UNIT DETACHED SINGLE FAMILY RESIDENTIAL SUBDIVISION WITH ALL ASSOCIATED ROADWAYS AND UTILITIES. A RETENTION/DETENTION AREA WILL BE LOCATED ON-SITE TO SATISFY ALL STORMWATER REQUIREMENTS AS APPLICABLE TO THE SJRWMD AND THE CITY OF POPKA, CURRENTLY, THE SUBJECT PROPERTY IS BEING USED AS AN EQUESTRIAN FACILITY. THE POTABLE WATER. RECLAIMED WATER. AND WASTEWATER WILL BE PROVIDED BY THE CITY OF APOPKA UTILITIES. A FEE SIMPLE OWNERSHIP, SUCH AS A HOME OWNERS ASSOCIATION WILL BE CREATED FOR ALL LANDS EXCLUSIVE OF THE INDIVIDUAL LOTS TO CONTROL AND MAINTAIN THE LAND. MINOR IMPROVEMENTS TO THE LESTER ROAD PUBLIC RIGHT-OF-WAY WILL OCCUR WHERE THE ENTRANCE OF THE SUBDIVISION CONNECTS TO LESTER ROAD.

PROJECT TEAM:

	Variance (V) / Waiver (W) Table						
Code #	Code Requirement	(V/W)	Request	Justification			
2.02.05 (H.)(2.)	Areas adjacent to agricultural districts or activities shall provide a minimum five-foot bufferyard and a minimum six-foot high brick, stone or decorative block finished wall unless acceptable alternatives are submitted for approval	v	chloride fence in lieu of a six- foot high brick, stone or	Adjacent properties to the South, West and North currently have a future land use designation of residential in both the County and City. Current development trends in the area indicate surrounding properties will be developed to Low/Medium density residential properties in the future.			

FINAL DEVELOPMENT PLAN **BRIDLEWOOD SUBDIVISION** (FKA EQUESTRIAN CENTER SUBDIVISION)

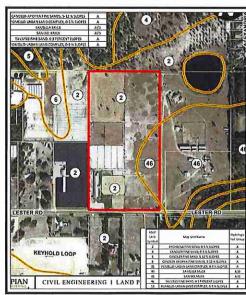
CITY OF APOPKA, FLORIDA OCPA PARCEL ID# 28-20-28-0000-00-060



VICINITY MAP



AERIAL MAP



SOILS MAP



FEMA FLOOD MAP

C1.0 GENERAL NOTES 3 C1.1 SYMBOLS & ABBREVIATIONS EXISTING CONDITIONS - OVERALL 4 C1.2 5 C1.3 EXISTING CONDITIONS - SOUTH 6 C1.4 EXISTING CONDITIONS - NORTH 7 020 FROSION CONTROL & DEMO PLAN - SOUTH FROSION CONTROL & DEMO PLAN - NORTH 9 C2.2 FROSION CONTROL & DEMO PLAN - DETAILS GEOMETRY PLAN - SOUTH 15 C3.5 SIGNAGE & STRIPING PLAN 16 C3.6 UTILITY NOTES 17 C4.0 UTILITY PLAN - OVERALL 18 C4.1 UTILITY PLAN - SOUTH 19 C4.2 20 C4.3 LITILITY PLAN - NORTH 21 C5.0 PAVING & GRADING PLAN-OVERALL 22 C5.1 PAVING & GRADING PLAN - SOUTH PAVING & GRADING PLAN - NORTH DRAINAGE PLAN - OVERALL DRAINAGE PLAN - SOUTH DRAINAGE PLAN - NORTH PLAN & PROFILE - HALTER STREET STA. 0+00 - 11+00 PLAN & PROFILE - HALTER STREET STA. 11+00 - 14+32 CIVIL DETAILS DRAINAGE DETAILS DRAINAGE DETAILS 32 C9.1 34 CIO I POTABLE & RECLAIMED WATER DETAILS. POTABLE & RECLAIMED WATER DETAILS 35 C10.2 SANITARY SEWER DETAILS 37 C11.0 LIFTSTATION DETAILS 38 C11.1 LIFTSTATION DETAILS 39 C11.2 LIFTSTATION DETAILS 10 LS-01 LANDSCAPE SITE PLAN & TREE MITIGATION

41 LS-02 LANDSCAPE SITE PLAN & TREE MITIGATION

42 IR-01 IRRIGATION SITE PLAN IR-01 IRRIGATION SITE PLAN HS-01 HARDSCAPE SITE PLAN & DETAILS

S-1 (1/2) SURVEY S-1 (2/2) SURVEY

Sheet List Table

UTILITY PROVIDERS

WATER / RECLAIMED / SEWER SERVICES: CITY OF APOPKA 748 E. CLEVELAND STREET APOPKA, FL 32703 CONTACT: BRIAN BISHOP (407) 703-1731, EXT. 685

GAS: LAKE APOPKA NATURAL GAS DISTRICT WINTER GARDEN VINELAND ROAD ORLANDO, FL 32803 PHONE: (407) 656-2734

SOLID WASTE COLLECTION SERVICES: CITY OF APOPKA 120 E MAIN STREET APOPKA, FLORIDA 32703 PHONE: (407) 703-1700

CONTACT: TY LESLIE





SHEET 1 OF 44



2221 LEE ROAD, SUITE 17 WINTER PARK, FLORIDA 32789 (407) 960-5868

BOARD OF PROFESSIONAL ENGINEERING CERTIFICATE NO. 32174

		PERMITS REQ	UIRED	8	4
AGENCY	PERMIT TYPE	DATE APPLIED	DATE APPROVED	APPROVAL NO.	
CITY OF APOPKA CITY OF APOPKA S.J.R.W.M.D.	SITE BUILDING PERMIT ARBOR CLEARING PERMIT				
F.D.E.P.	WATER DISTRIBUTION PERMIT	Δ			
F.D.E.P.	WASTEWATER COLLECTION PERMIT				REV. D

DATE DESCRIPTION

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

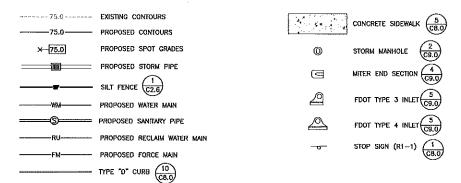
- CONTRACTOR FURTHER AGREES THAT CONTRACTOR AND ITS SUBCONTRACTORS SHALL NOT CAUSE THE DISCHARGE, RELEASE OR DISPOSAL OF ANY HAZARDOUS MATERIAL CREATED BY ITS WORK ON OR ABOUT THE JOB SITE IN THE EVENT OF ANY SPILL, RELEASE OR ANY OTHER REPORTABLE OCCURRENCE, CONTRACTOR SHALL NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY AND SHALL TAKE SUCH ACTION AS MAY BE NECESSARY TO MINIMIZE THE DELETERIOUS EFFECT OF SUCH SPILL ON PERSONS OR PROPERTY.
- 25. 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 SAFETY AND HEALTH ACT OF 1970 AS MENDED OR ANY RULE OR REGULATION PROMULCATED THEREUNDER OR OF ANY STATE LAWS OR REGULATIONS PERTAINING TO JOB SAFETY AND HEALTH ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PERFORMANCE OF WORK OR WORK TO BE PERFORMED UNDER THIS CONTRACT, AND CONTRACTOR SHALL INDEMNIFY OWNER FROM ANY SUCH CLAIMS, PEPALITIES, SUITS OR ACTIONS, PUBLIC OR PRIVATE, ADMINISTRATIVE OR JUDICIAL, INCLUDING ATTORNEY'S FEES PAID OR INCURRED BY OR ON BEHALF OF OWNER, JOINITLY 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 ARBING 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 DESMED NECESSARY BY OWNER TO REMEDT THE CLAIMED VIOLATION, AND ALL COSTS OR EXPENSES TO PROTECT, HOLD HARMLESS AND INDEMNIFY OWNER AGAINST ANY AND ALL SUCH COSTS OR EXPENSES.
- 28. CONTRACTOR AND ITS SUBCONTRACTORS SHALL, UPON COMPLETION OF PERFORMANCE OF ALL BUTIES UNDER THIS CONTRACT, REMOVE ALL SUPPLIES, MATERIALS, AND WASTE CONTRACTOR AND 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 PROMISIONS OF THIS CONTRACT.
- 27. CONTRACTOR AGREES TO INDEMNIFY, DEFEND, PROTECT AND HOLD THE OWNER HARMLESS FROM AND AGAINST ANY CLAMS INCLUDING, MITHOUT LIMITATION, ACTUAL ATTORNEY'S FEES AND ANY COSTS OF INVESTIGATION, SOILS TESTING, GOVERNMENTAL APPROVALS, REMEDIATION, AND CLEANUP ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE FAILURE OF CONTRACTOR OR ITS SUBCONTRACTORS, OR THEIR AGENTS, EMPLOYEES, OFFICERS, OR REPRESENTATIVES, TO COMPLY WITH THE TERMS OF THESE CONSTRUCTION DOCUMENTS.
- 28. SHOULD CONTRACTOR OR ITS SUBCONTRACTORS DISCHARGE, RELEASE OR DISPOSE OF ANY HAZARDOUS MATERIAL ON OR ABOUT THE 40B SITE IN MOLATION OF THESE CONSTRUCTION DOCUMENTS, CONTRACTOR SHALL IMMEDIATELY SO INFORM OWNER & ENGINEER IN WRITING. IN THE EVENT OF ANY SHILL RELEASE OR ANY OTHER REPORTABLE OCCURRENCE, CONTRACTOR SHALL NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY, OWNER & ENGINEER AND SHALL TAKE SUCH ACTION AS MAY BE NECESSARY TO MINIMIZE THE DELETERIOUS EFFECT OF SUCH SPILL ON PERSONS OR PROPERTY.
- 29. IN THE EVENT CONTRACTOR OR ITS SUBCONTRACTORS ENCOUNTER ON THE PREMISES ANY PIPELINE, UNDERGROUND STORAGE TANK OR OTHER CONTAINER, OF ANY KIND, THAT MAY CONTAIN A HAZARDOUS MATERIAL, OR ENCOUNTER MATERIAL REASONABLY BELIEVED TO BE A HAZARDOUS MATERIAL, CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO OWNER AND/OR ENGINEER IN WRITING.
- 30. "HAZARDOUS MATERIAL" MEANS ANY SUBSTANCE: (A) THE PRESENCE OF WHICH REQUIRES INVESTIGATION OR REMEDIATION UNDER ANY PRESENT FEDERAL, STATE OR LOCAL STATUTE, REQULATION, ORDINANCE, RULE, CODE, ORDER, ACTION, POLICY OR COMMON LAW, OR (8) WHICH IS OR BECOMES DEFINED AS A "HAZARDOUS WASTE," "HAZARDOUS SUBSTANCE," POLILUTANT OR CONTAMINANT UNDER ANY PRESENT FEDERAL, STATE OR LOCAL STATUTE, REQULATION, RULE OR ORDINANCE OR AMENOMENTS THERETO INCLUDING, WITHOUT LIMITATION, THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LABBILITY ACT (U.S.C. SECTIONS 9801 ET 5EQ.) AND/OR THE RESOURCE CONSERVATION AND RECOVERY ACT (42 U.S.C. SECTIONS 6901 ET 5EQ.), OR (C) WHICH IS TOXIC, EXPLICIONE, CORRIOSIVE, FLAMMABLE INFECTIOUS, RADIOACTIVE, CARCINOCHIC, MUTAGENIC, OR OTHERWISE HAZARDOUS AND IS REGULATED BY ANY CONSENMENTAL 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 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 (C) WHICH CONTAINS GASOLINE, DIESEL FUEL OR OTHER PETROLEUM HYDROCARBONS, OR (F) WHICH CONTAINS POLYCHLORINATED BIPHENVIS (PC895), ASSESTICS, LEAD OR UREA FORMALDEHYDE FORM INSULATION. BIPHENYLS (PCBS), ASBESTOS, LEAD OR UREA FORMALDEHYDE FOAM INSULATION.
- 31. THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES AS TO SIZE, LOCATION, AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY AND ALL CONFLICTS, DEVIATIONS OR OMISSIONS TO THESE CONSTRUCTION DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
- 32. IF ANY TESTIND, INSPECTION OR APPROVAL REVEAL DEFECTIVE WORK, CONTRACTOR SHALL NOT BE ALLOWED TO RECEIVE ANY ASSOCIATED COSTS AND THE OWNER SHALL BE ENTITLED TO DEDUCT FROM THE CONTRACT PRICE, BY ISSUING A CHANGE ORDER, OWNER'S COSTS ARISING OUT OF THE DEFECTIVE WORK, INCLUDING COSTS OF REPEATED PROCEDURES, COMPENSATION FOR ENGINEER'S AND DESIGN ENGINEER'S SERVICES AND ALL OTHER RELATED COSTS.

ADDITIONAL NOTES

TYPE "F" CURB (10)

- BEARINGS SHOWN HEREON ARE ASSUMED RELATIVE TO THE FLORIDA STATE PLANE COORDINATE SYSTEM 1983 EAST ZONE, BASED ON GPS WITH L-NET CORRECTIONS. THE MONUMENTED SOUTH LINE OF THE SOUTHEAST QUARTER OF SECTION 8, TOWNSHIP 21 SOUTH, RANGE 28 EAST, BEING NORTH 89'49'08" WEST.
- ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 AND ARE BASED ON THE FOLLOWING GRAINSE COUNTY ENGINEERING DEPARTMENT'S BENCHMARKS: L653002 EL. 131.081' L1549013 EL. 135.026
- THE VERTICAL CONTROL ESTABLISHED FOR THE SURVEY IS BASED ON A CLOSED LEVEL LOOP, HAVING A CLOSURE ACCURACY WHICH MEETS OR EXCEEDS THAT REQUIRED BY THE STANDARDS OF PRACTICE SET FORTH IN RULE CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, FLORIDA STATURES 472.027.

LEGEND



HANDICAP ACCESSIBILITY NOTES

- 1. ALL CONSTRUCTION MUST MEET OR EXCEED ALL REQUIREMENTS AS OUTLINED IN THE AMERICANS WITH DISABILITIES ACT (ADA) AND THE FLORIDA ACCESSIBILITY CODE, MOST RECENT EDITIONS. BOTTOM OF CURB RAMP ELEVATION (B.O. RAMP) IS RELATIVE TO EACH CURB RAMP CONDITION. ACTUAL ELEVATIONS SHALL BE BASED ON EXISTING
- 2. TOP OF CURB ELEVATION ADJACENT TO 8.0, RAMP = 0.50 FT, MAX, UNLESS OTHERWISE NOTED.
- ADA REQUIREMENTS SUPERSEDE SPOT GRADES AT LOT LINES. CONTRACTOR TO CUT BACK SLOPE AT 3:1 OR FLATTER AS NEEDED FOR RAMP AND SIDEWALK CONNECTION.
- REFER TO PLAN SHEETS AND SECTIONS FOR LOCATIONS AND SIDEWALK WIDTHS,
- THE DETECTABLE WARNING STRIP SHALL CONSIST OF A 24 INCH WIDE TACTILE PATTERN OF RAISED TRUNCATED DOMES (AUGNED PATTERN), DOMES SHALL HAVE A DIAMETER OF 0.9 INCH, A HEIGHT OF 0.2 INCH, AND A CENTER TO CENTER SPACING OF 2.35 INCHES. THE RAMP DETECTABLE WARNING STRIP SHALL BE CONTRASTING IN COLOR. THE MATERIAL USED TO PROVIDE CONTRAST SHALL CONTRAST BY AT LEAST 70%.
- 6. THE CROSS SLOPE OF RAMP SURFACES AND ADJACENT STREET GRADES SHALL BE NO MORE THAN 1:50 OR 2%
- CURB RAMPS CONSTRUCTED BY THE CONTRACTOR SHALL MEET ALL CURRENT APPLICABLE A.D.A. REQUIREMENTS AND SHALL HAVE DETECTABLE WARNING COMPLYING WITH A.D.A. REQUIREMENTS. ACCESSIBILITY ROUTES SHALL MEET ALL APPLICABLE A.D.A. REQUIREMENTS.
- 8. CONTRACTOR TO REFER TO MUNICIPALITY DETAILS AS NEEDED.
- 9. DRIVEWAY/ROADWAY CROSS SLOPES AT CROSSWALKS SHALL BE MAXIMUM 2% PER ADA REQUIREMENTS.
- 10. SIDEWALK CROSS SLOPES SHALL BE MAXIMUM 2% PER ADA REQUIREMENTS.
- 11. CURB RAMP FLARES & LANDINGS SHALL MEET ADA REQUIREMENTS.
- 12. ACCESSIBLE ROUTE WITH RUNNING SLOPES GREATER THAN 1:20 IS A RAMP AND SHALL COMPLY WITH ADA RAMP
- 13. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO MEET ALL CURRENT ADA STANDARDS. CONTRACTOR SHALL REFER TO FDOT STANDARDS. (INDEX 304, MOST CURRENT EDITION)

RECORD DRAWING AS-BUILT REQUIREMENTS:

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

WATER DISTRIBUTION SYSTEM:

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

WASTEWATER COLLECTION/TRANSMISSION SYSTEM:

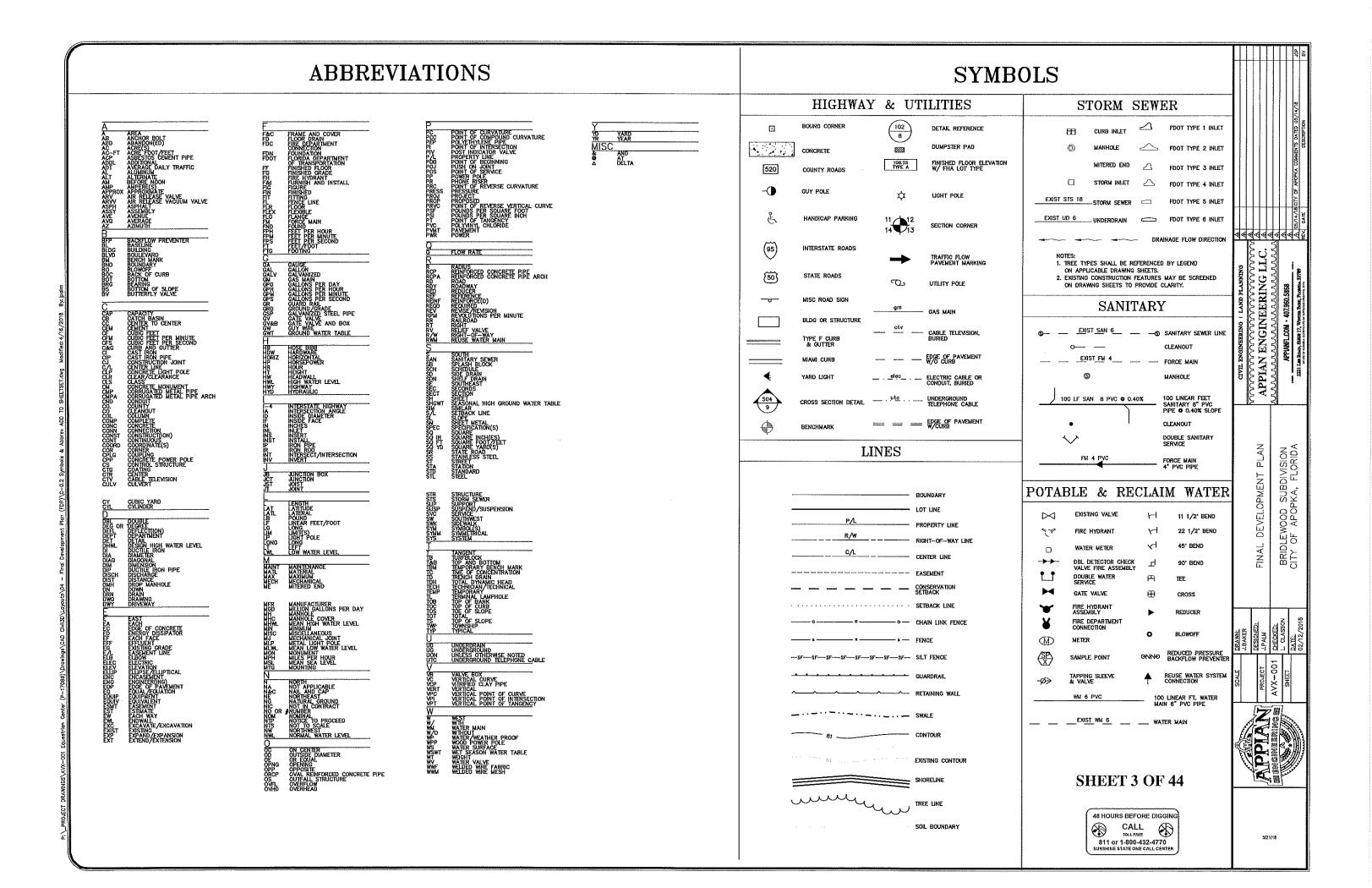
A. LOCATION, DIMENSION, AND INVERT ELEVATIONS OF PIPES, MANHOLES (INCLUDING RIM ELEVATION), LIFTSTATION, FORCEMAIN, FITTINGS, CHANGE IN DIRECTION AND OTHER ASSOCIATED FACILITIES.

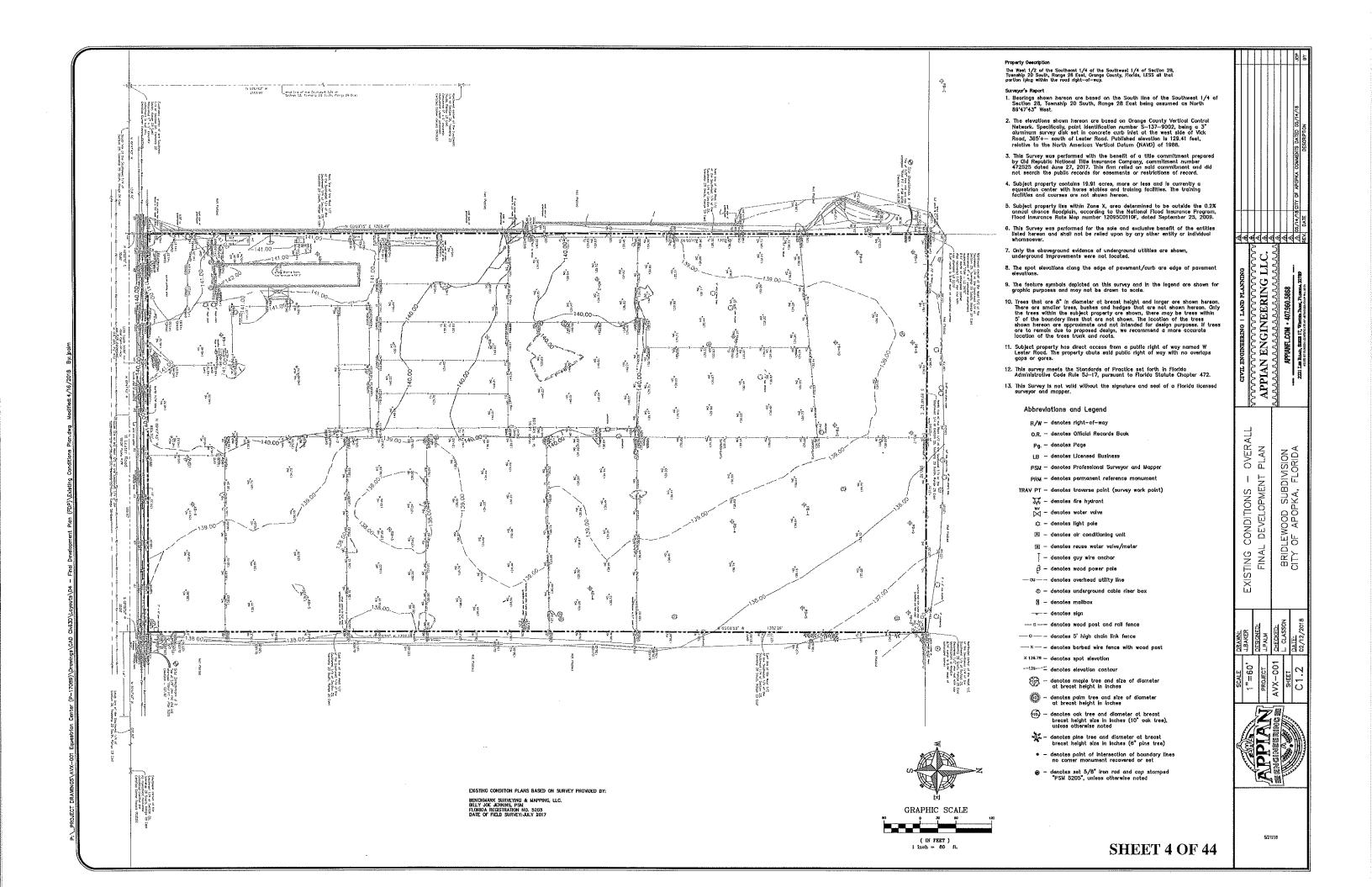
- DIMENSIONS AND ELEVATIONS OF ALL DISCHARGE STRUCTURES INCLUDING ALL WEIRS, SLOTS, GATES, PIPES, AND SKIMMERS;
- LOCATIONS, DIMENSIONS, AND ELEVATIONS OF ALL FILTER, EXFILTRATION, OR UNDERDRAIN SYSTEMS INCLUDING CLEANOUTS, PIPES, CONNECTIONS TO CONTROL STRUCTURES, AND POINTS OF DISCHARGE TO THE RECEIVING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

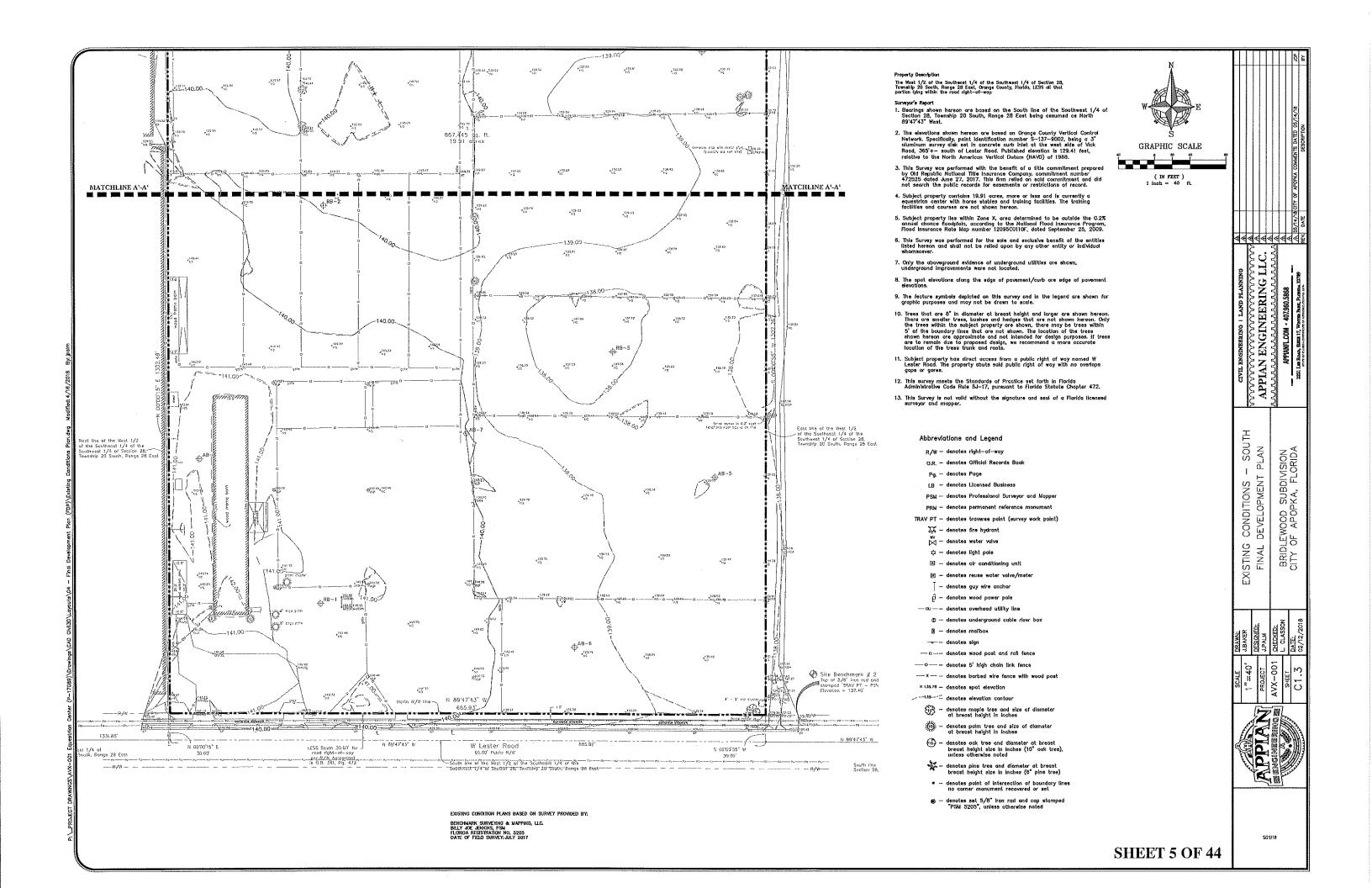
G. ELEVATION AND LOCATION OF BENCHMARK'S FOR THE SURVEY.

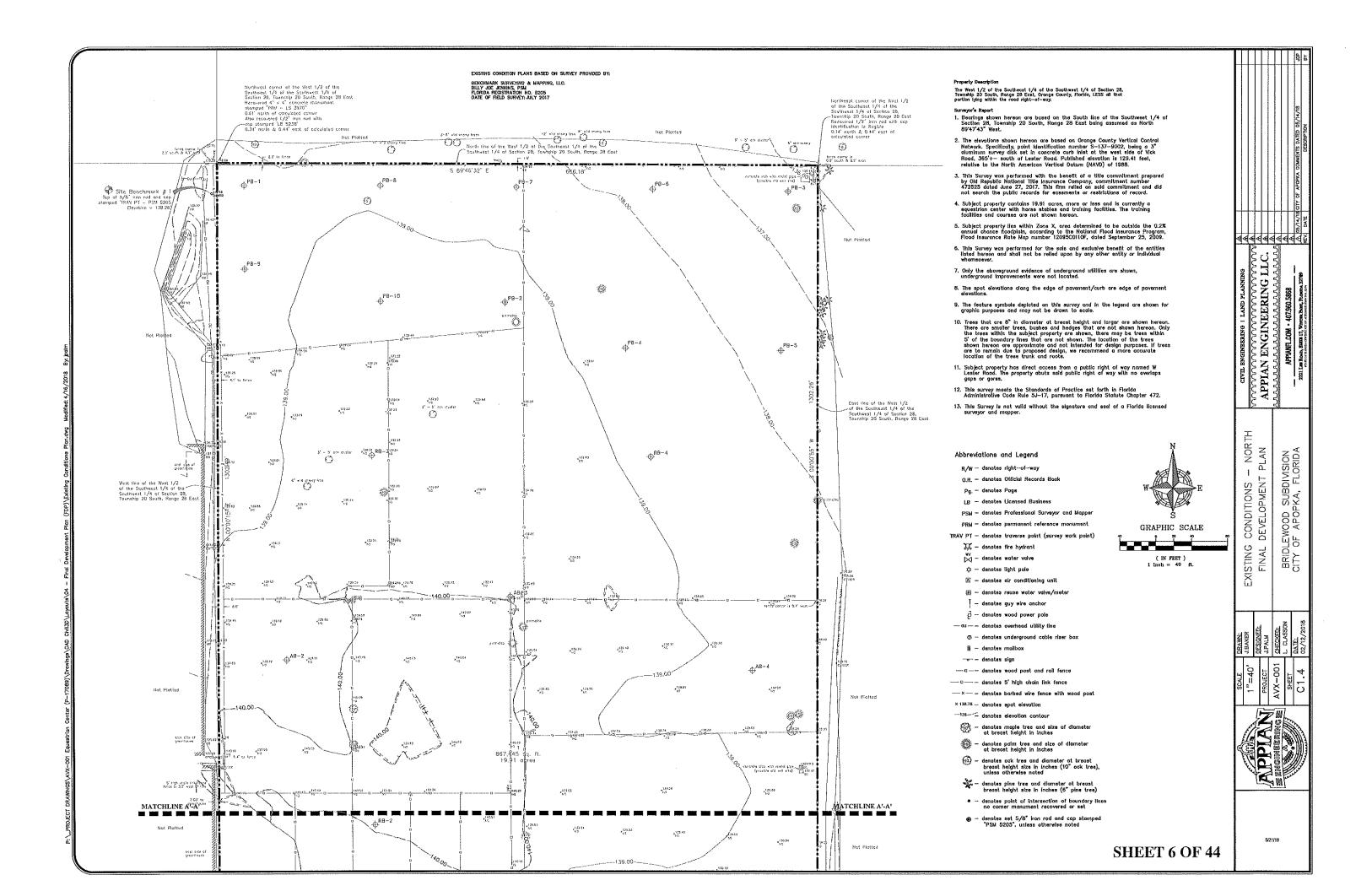
- A. ELEVATIONS AT THE FOUR CORNERS OF ALL HANDICAP PARKING SPACES AND ADJACENT LOADING AISLES.
- B. ELEVATIONS AND LOCATIONS FOR ALL ACCESSIBLE RAMPS WHICH ADEQUATELY REFLECT THE BUILT SLOPES.
- C. ELEVATIONS AND LOCATIONS ALONG THE PATHS OF CONVEYANCE FOR PEDESTRIAN TRAFFIC AND ALL ADA ACCESSIBLE ROUTES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

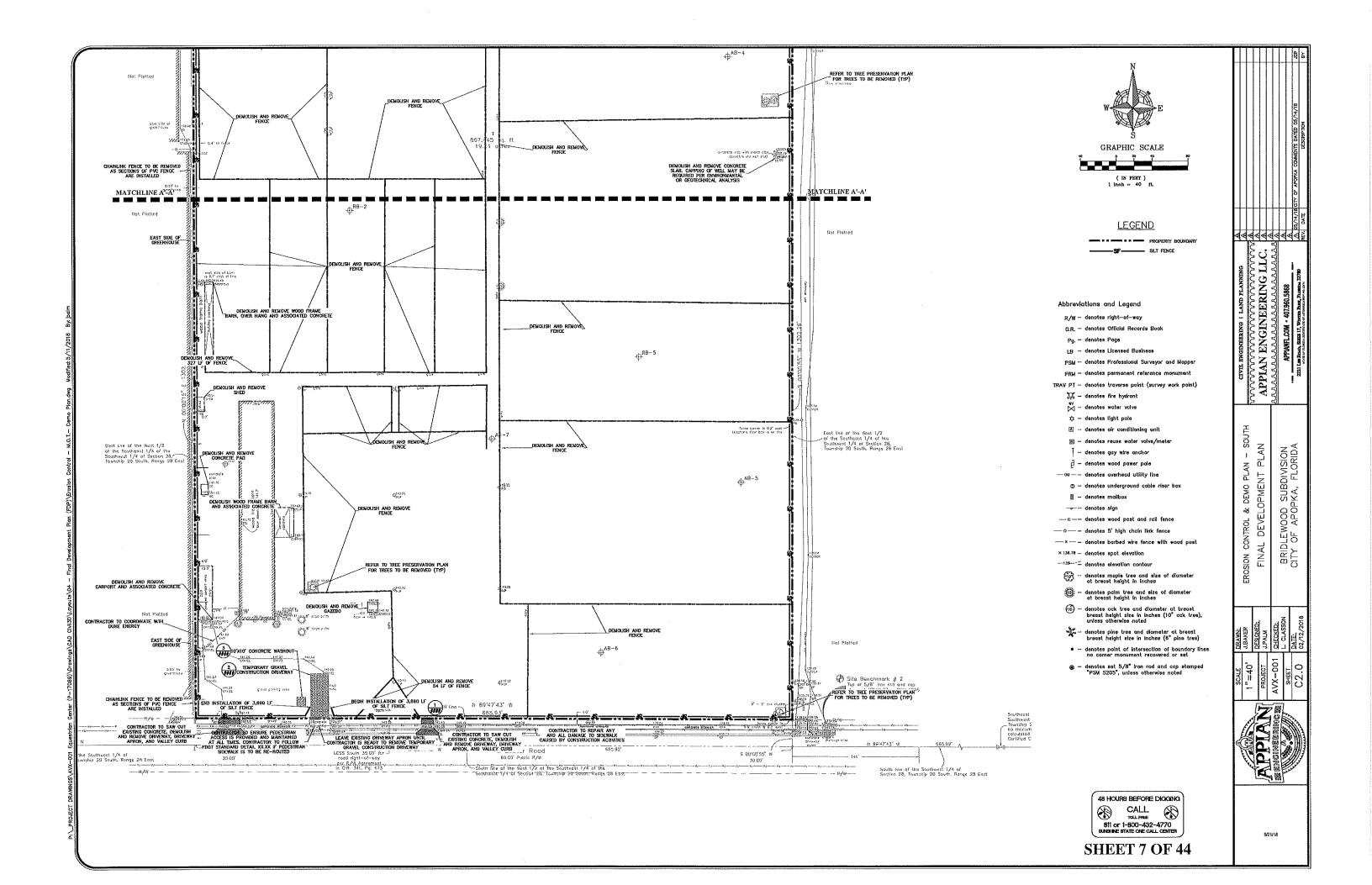
ENGINEERING SUBDIVISION PKA, FLORIDA S DEVELOPMENT O Z ERAL VOOD APOF BRIDLEW CITY OF FINAL DESIGNE
J.PALM
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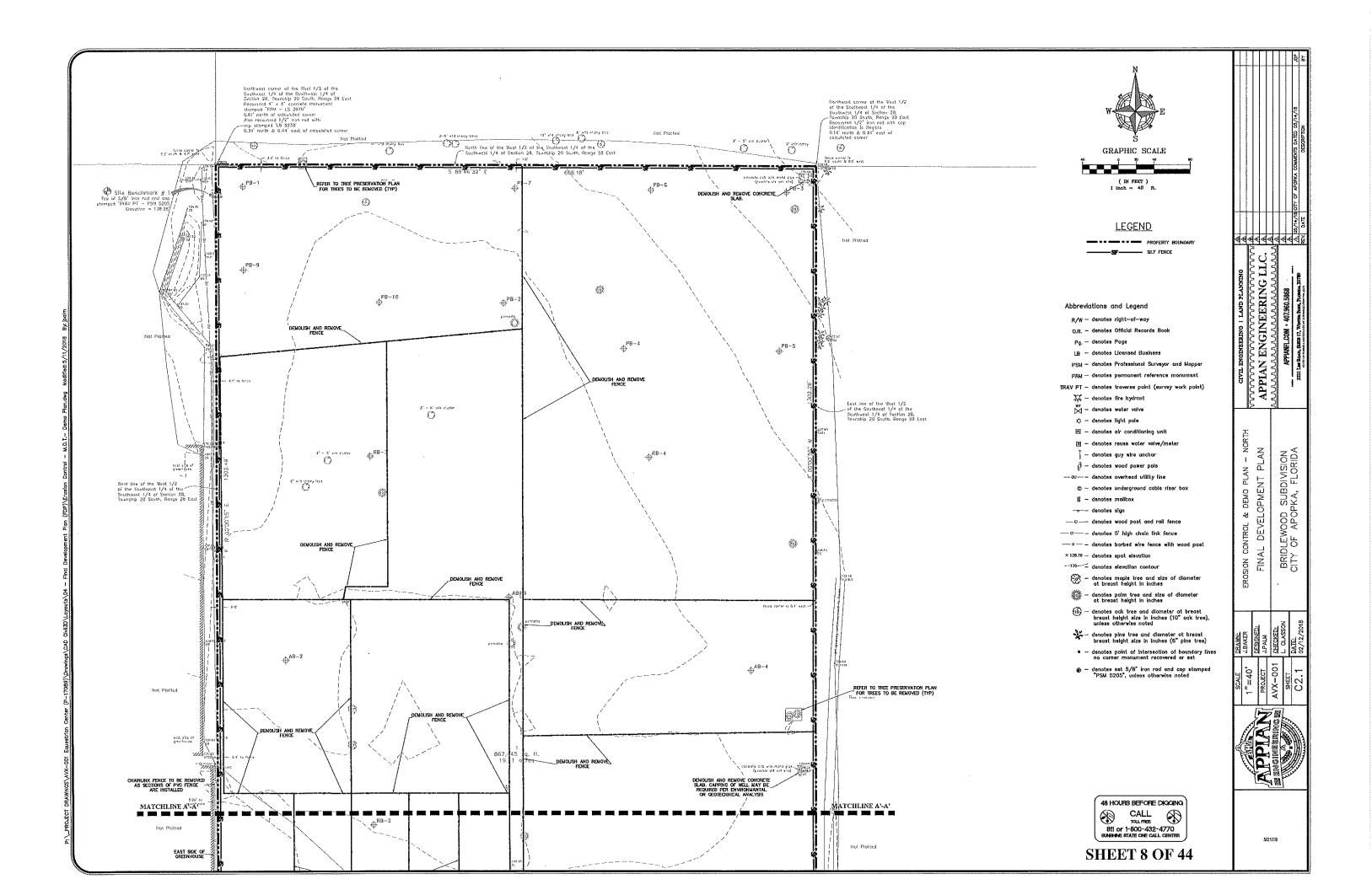






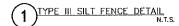


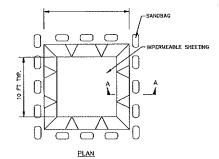


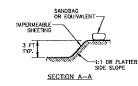


NOT

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





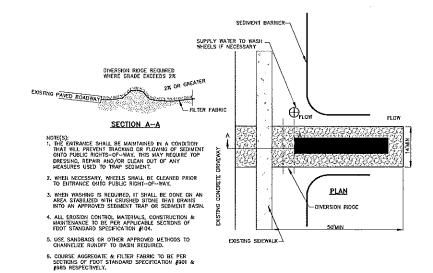


EXCAVATED WASHOUT STRUCTURE

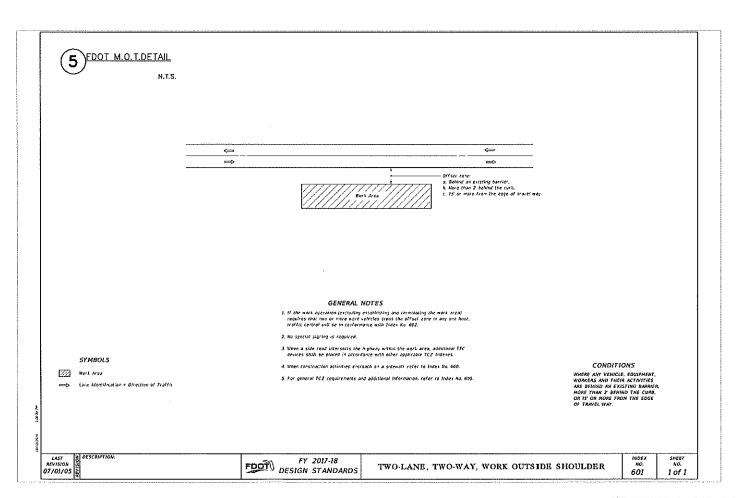
NOTES:

- LOCATE WASHOUT STRUCTURE A MINIMUM OF 50 FEET AWAY FROM OPEN CHANNELS, STORM DRAIN HILETS, SENSITIVE AREAS, WEILANDS, BUFFERS AND WATER COURSES AND AWAY FROM CONSTRUCTION TRAFFIC
- SIZE WASHOUT STRUCTURE FOR VOLUME NECESSARY TO CONTAIN WASH WATER AND SOLIDS AND MAINTAIN AT LEAST 4 INCHES OF FREEBOARD: TYPICAL DIMENSIONS ARE 10 FEET X 10 FEET X 3 FEET DEEP.
- 3. PREPARE SOM BASE FREE OF ROCKS OR OTHER DEBRIS THAT MAY CAUSE TEARS OR MOLES BY THE LINER, FOR LINER, USE 10 MIL OR THICKER UY RESISTANT, IMPERMEABLE SHEETING, FREE OF HOLES AND TEARS OR OTHER DEFERRED THAT COMPRISHES HERPHISTRIBUTY OF THE MARTEN.
- 4. PROVIDE A SIGN FOR THE WASHOUT IN CLOSE PROXIMITY TO THE FACILITY.
- 5. KED CONCRETE WASHOUT STRUCTURE WATER TROUT, REPLACE IMPERIABLE LURER IF OAMCOS (C.C., REPED OR PUNCTURED), EMETY OF REPLACE WASHOUT STRUCTURE THAT IS 75 FERCENT FULL, AND DISPOSE OF ACCUSANCE MASHOUT STRUCTURE THAT IS 75 FERCENT FULL, AND DISPOSE OF ACCUSANCE ON A PROPERTY ON ON TERLER FURSTED LABOR TO FACUS AND AND A PROPERTY ON ON TERLER FURSTED IN STRUCTURE TO THE AND A PROVED MANNER, PRIOR TO FORECASTED RAINSTORMS, REMOVE LIQUIDS OR COVER STRUCTURE TO PREVENT OVERFLOWS, REMOVE HARDERED SOUDS, MHOLE OR BROKEN UP, POR DISPOSAL OR RECYCLING. MAINTAIN RUNOFF DIVERSION AROUND EXCAVATED WASHOUT STRUCTURE UNITE STRUCTURE.





2 TEMPORARY CONSTRUCTION ENTRANCE DETAIL N.T.S.



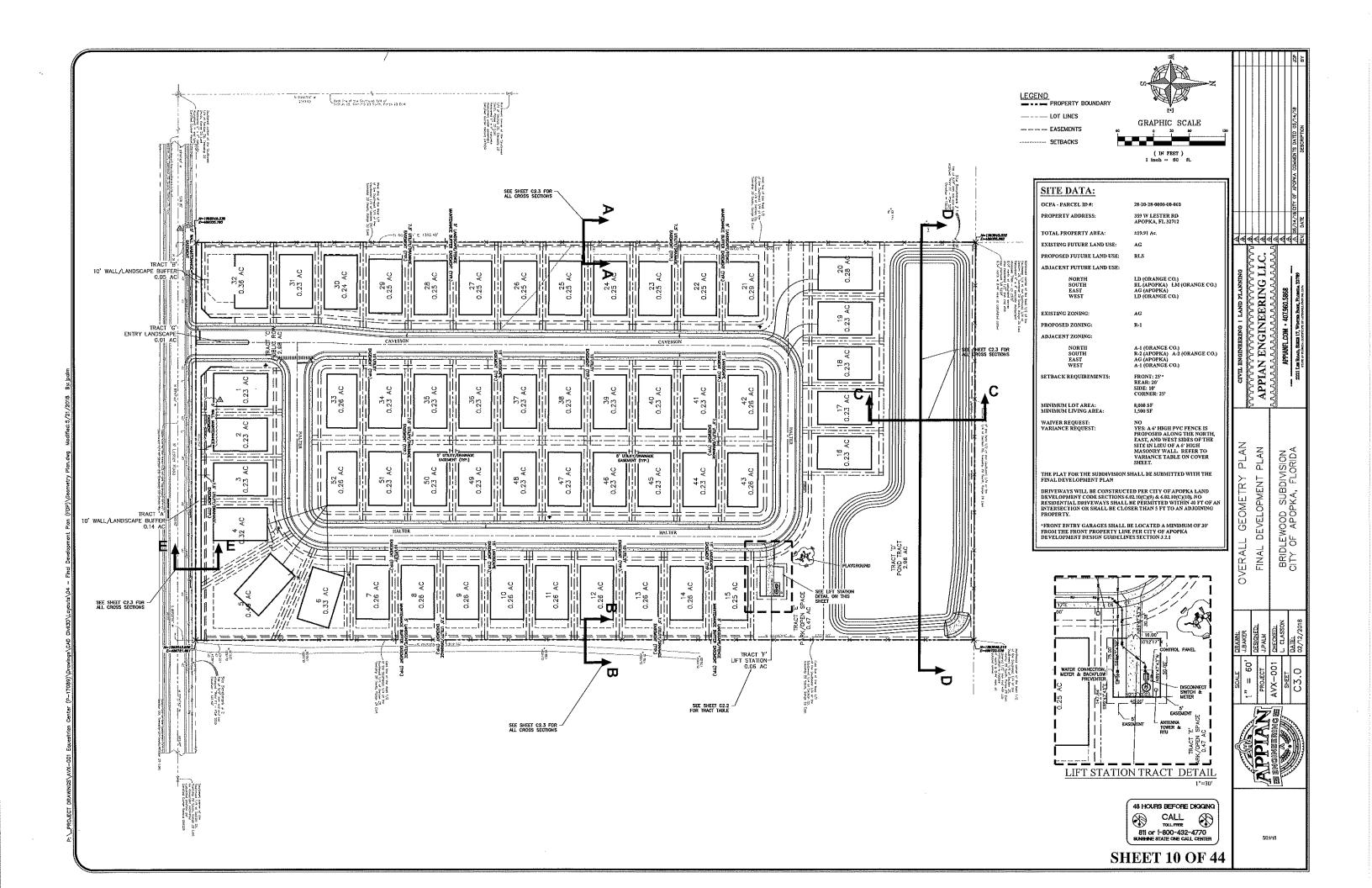
SHEET 9 OF 44

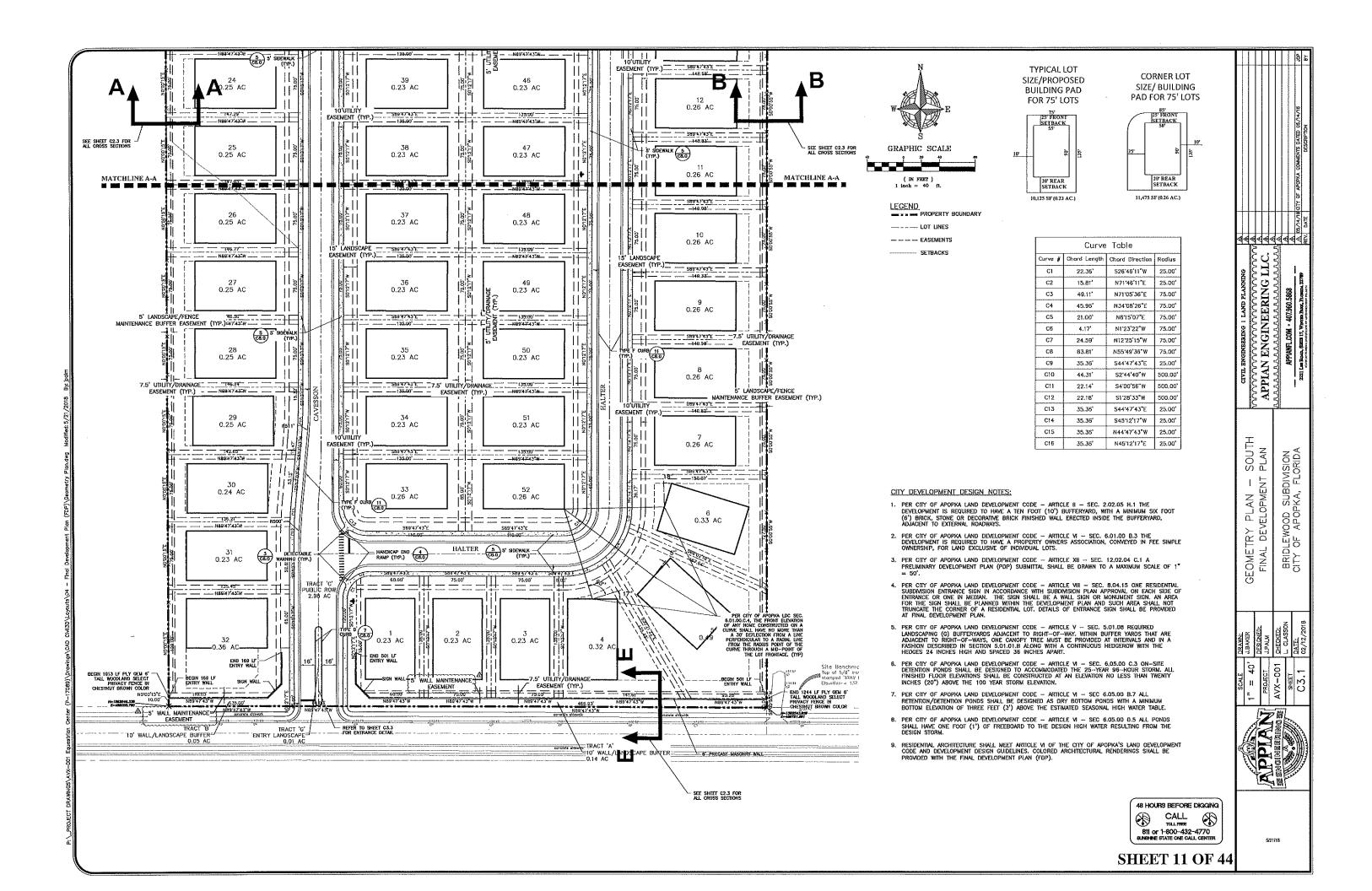
APPIAN ENGINEERING LLC.

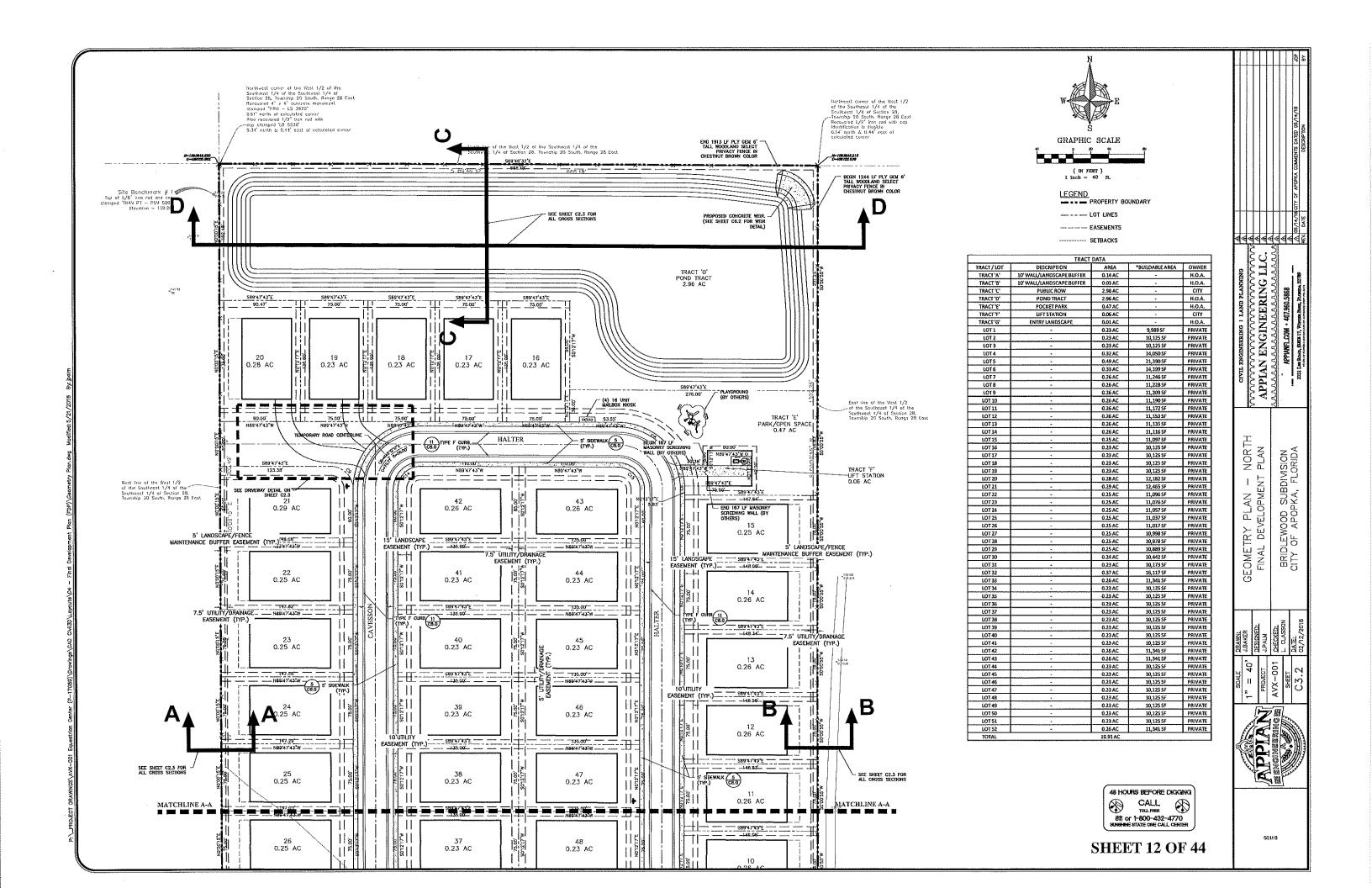
NN - DETAILS PLAN

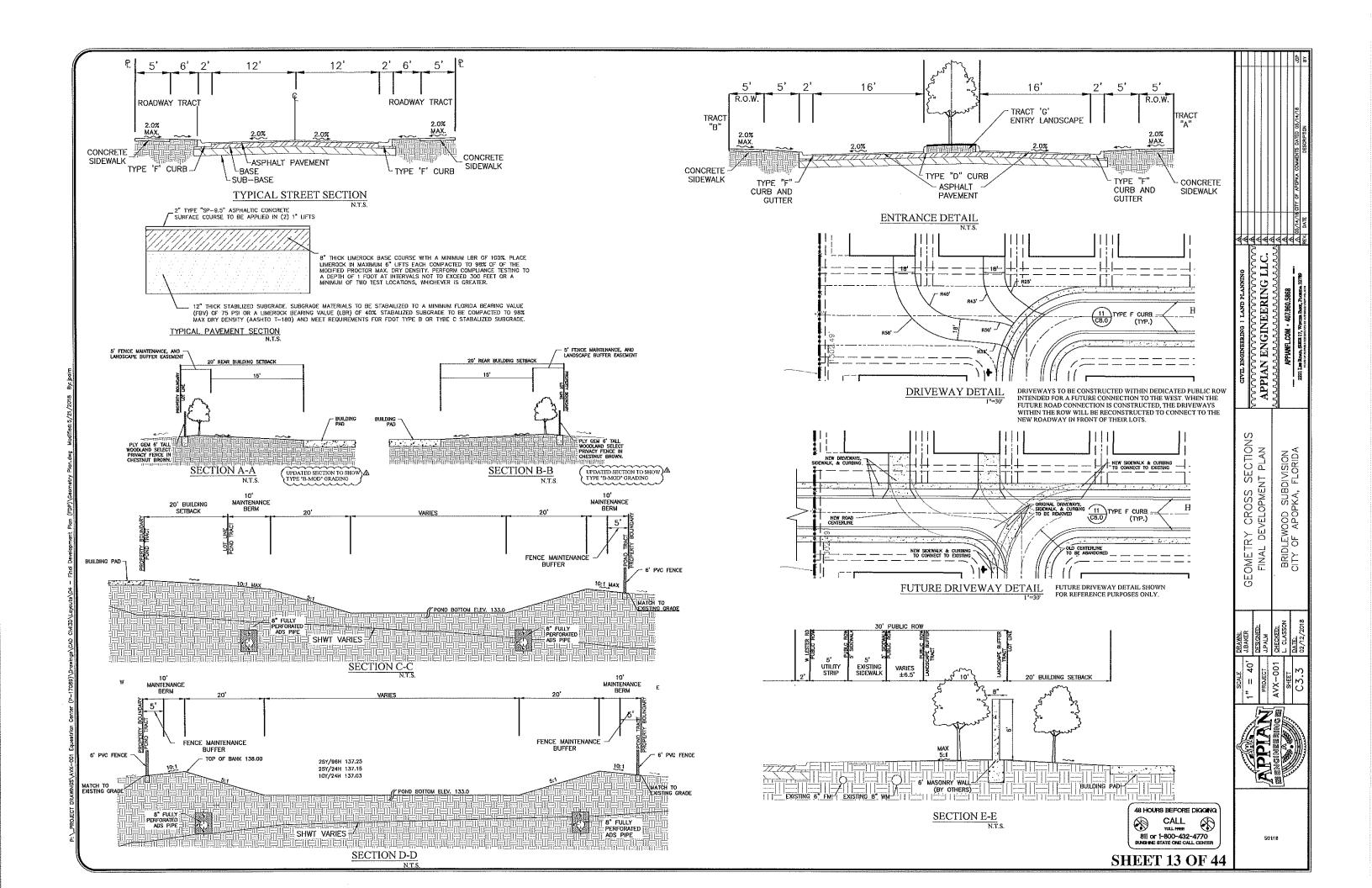
CONTROL & DEMO PLAN AL DEVELOPMENT P BRIDLEWOOD SUBDIVISION CITY OF APOPKA, FLORIDA

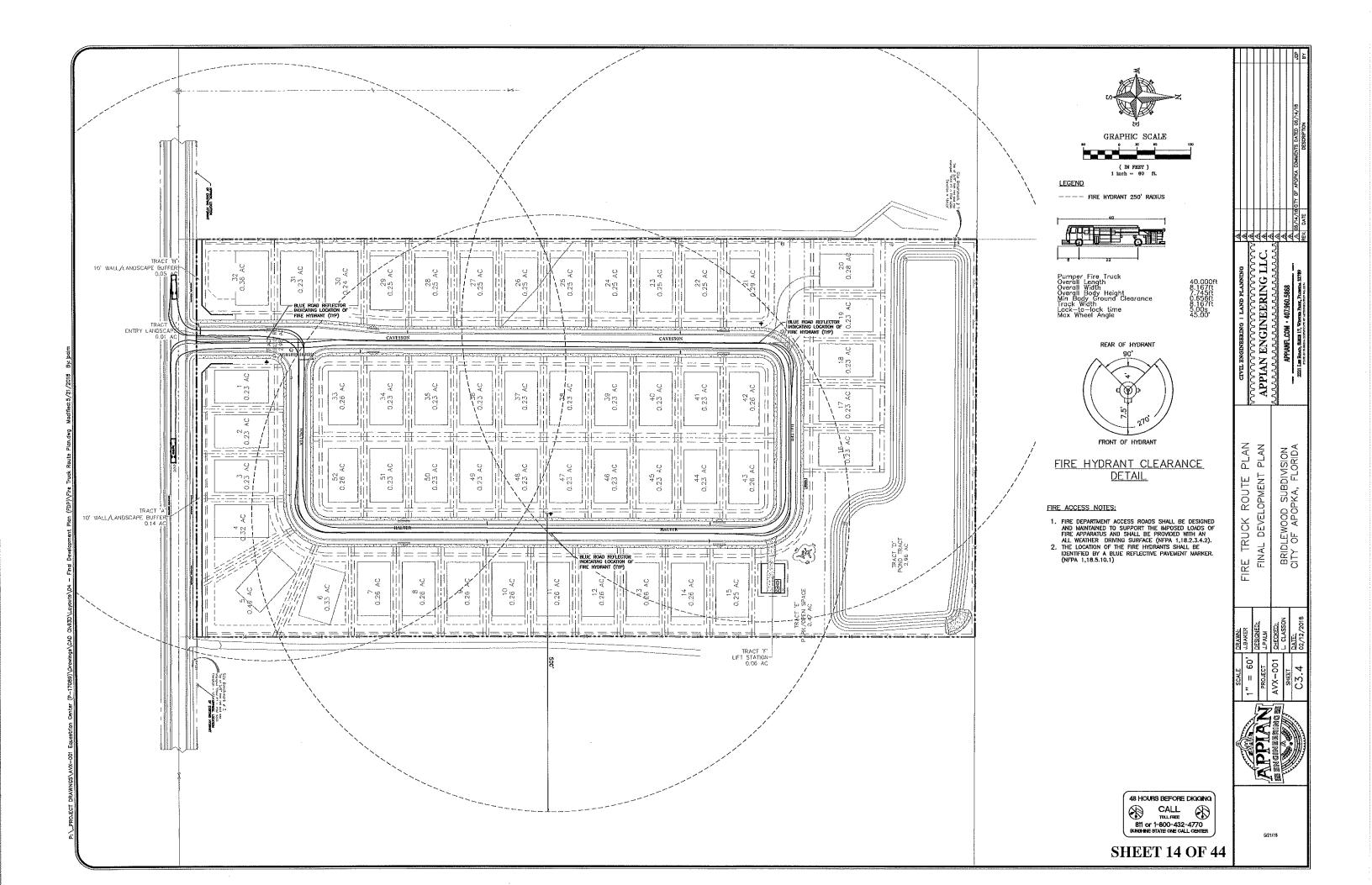
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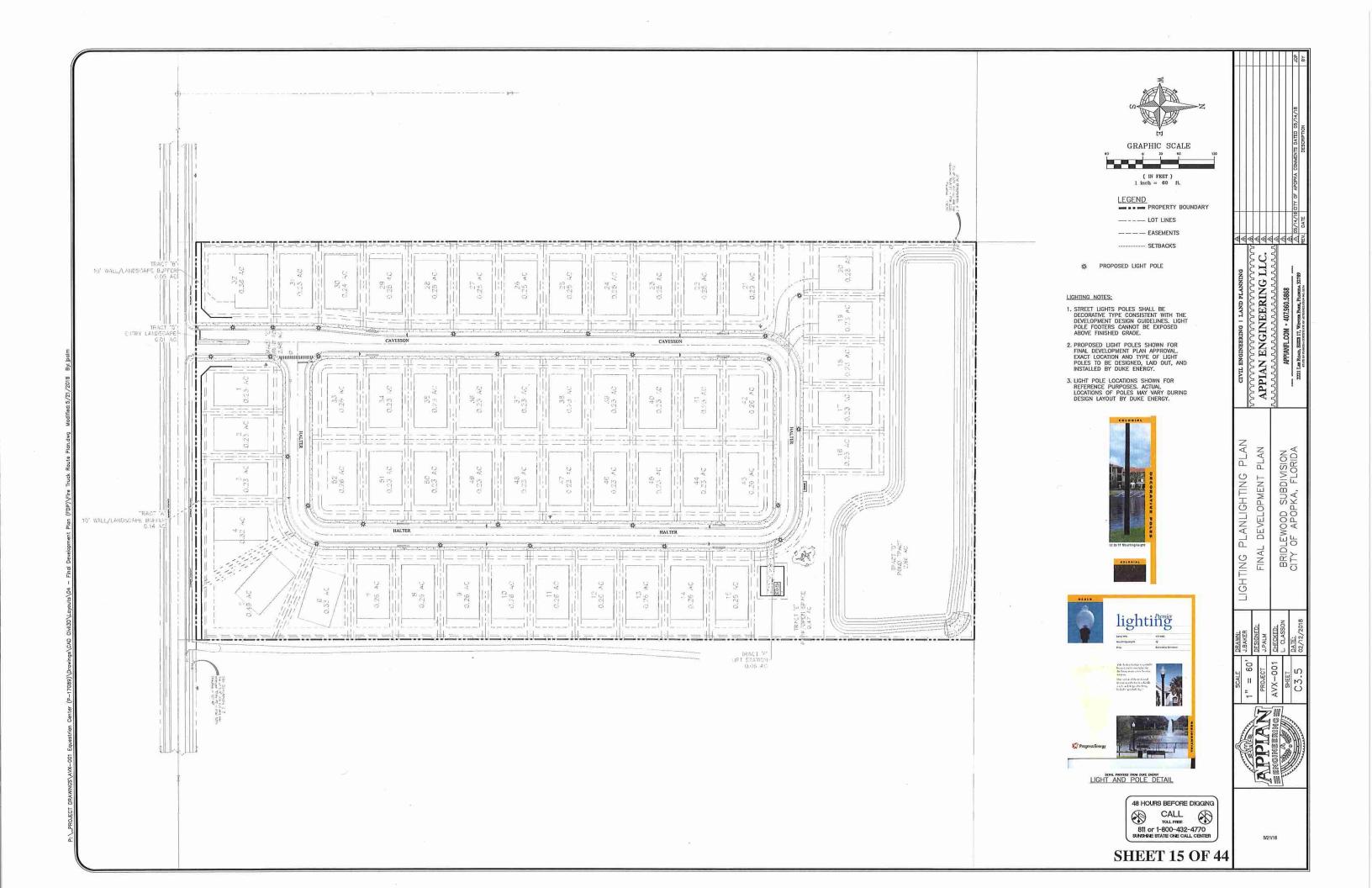


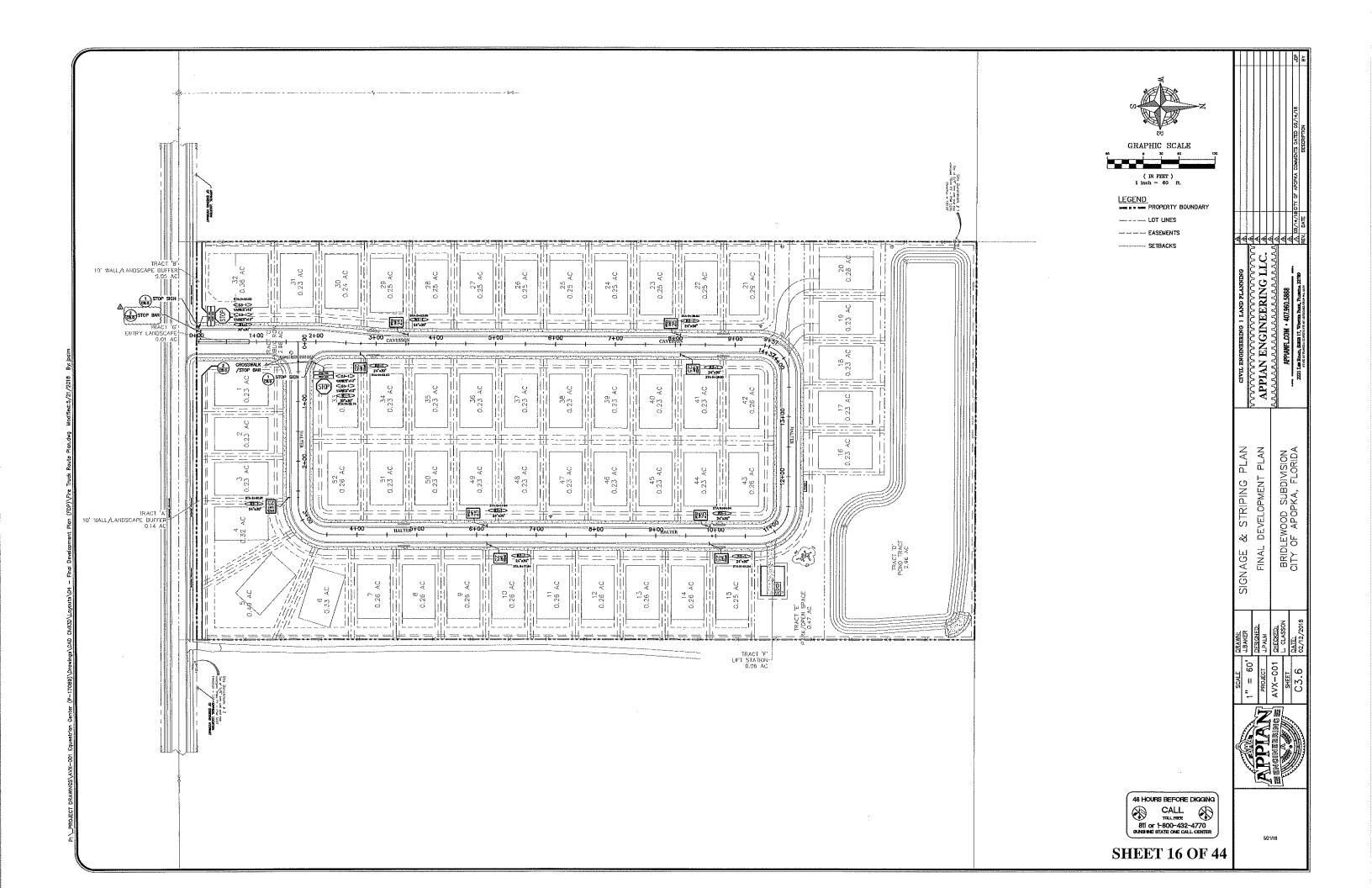












- 2. ALL WATERMAINS SHALL BE INSTALLED A MINIMUM OF 36" BELOW FINISHED GRADE.
- 3. ALL WATERMAINS AND FIRELINES PIPES SHALL BE RESTRAINED VIA MECHANICAL JOINTS.
- WATER MAIN PVC PIPES LESS THAN 4 INCHES MUST CONFORM TO THE SPECIFICATIONS OF ASTM 1785 (SCHEDULE 40, 80, 120) OR ASTM 2241 SDR21 AND MUST BEAR THE NSF LOGO ON EACH INSTALLED LENGTH.
- UNDERGROUND MARKING TAPE FOR ALL SANITARY FORCEMAINS SHALL BE INSTALLED 4 TO 8 INCHES BELOW THE FINISHED GRADE SURFACE DIRECTLY OVER THE PIPELINE. MARKER TAPE SHALL BE MADE OF AN INERT POLYETHYLENE MATERIAL HAVING A MINIMUM THICKNESS OF 4 MILS AND BE COLOR CODED "SAFETY GREEN".
- CONTRACTOR SHALL CONDUCT AND PROVIDE RESULTS IMMEDIATELY TO THE ENGINEER OF RECORD FOR PRESSURE AND LEAKAGE TESTS ON THE FORCE MAIN TRUNK LINE ONCE THE PRESSURE SEMER HAS BEEN INSTALLED AND PARTLY BACKFILLED. FINAL BACKFILL AND COMPACTION SHALL NOT COMMENCE UNTIL APPROVAL OF THE PRESSURE AND LEAKAGE TESTS HAS BEEN PROVIDED BY THE ENGINEER OF RECORD.
- FOLLOWING SATISFACTORY PRESSURE TEST RESULTS, THE CONTRACTOR SHALL DISINFECT ALL SECTIONS OF THE WATER DISTRIBUTION SYSTEM, AND RECEIVE APPROVAL THEREOF FROM APPROPRIATE AGENCIES PRIOR TO PLACING THE SYSTEM INTO SERVICE.
- FIRE HYDRANTS SHALL BE PLACED A MINIMUM OF 3 FT. AND A MAXIMUM OF 5 FT. FROM THE CURB OR PAVED ROAD SURFACE UNLESS OTHERWISE APPROVED. NO FENCE, TREE, POST, SHRUB, OR OTHER OBJECT WHICH COULD BLOCK THE HYDRANT FROM NORMAL VIEW OR OBSTRUCT THE HYDRANT'S USE SHALL BE LOCATED WITHIN FOUR (4) FEET OF THE HYDRANT. THE FOUR—AND—ONE—HALF INCH (4—1/2") LARGE VOLUME CONNECTION SHALL FACE THE NEAREST ROADWAY. THE CENTER OF THE STEAMER PORT SHALL BE 18 INCHES MINIMUM AND 24 INCHES MAXIMUM ABOVE FINISHED GRADE.
- ALL FIRE HYDRANT LEADS SHALL HAVE AN INSIDE DIAMETER OF AT LEAST SIX INCHES AND INCLUDE AUXILARY VALVES.
- 10. WHEN NECESSARY, DEWATERING SHALL BE PROVIDED TO KEEP THE GROUNDWATER ELEVATION A MINIMUM OF 6 INCHES BELOW MAIN BEING LAID.
- ALL UTILITIES SHALL BE LAID ON A FIRM FOUNDATION WITH ALL UNSUITABLE MATERIAL (MUCK, ROCK, COQUINA, ETC.) REMOVED AND REPLACED WITH CLEAN GRANULAR MATERIAL.
- 12. TRENCHES SHALL BE BACKFILLED WITH MATERIAL ACCEPTABLE TO ORANGE COUNTY UTILITIES WITH A MINIMUM COMPACTION OF 98% IN PAVED AREAS AND 95% IN UNPAVED AREAS IN ACCORDANCE WITH AASHTO T-180 MODIFIED PROCTOR TEST.
- 13. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT TRENCH COMPACTION TESTS BE PROVIDED AT POINTS 12 INCHES ABOVE THE PIPE AND AT 12 INCHES VERTICAL INTERVALS TO FINISH GRADE, AT A MINIMUM SPACING OF EVERY 300 FEET.
- 14. ALL WATER SERVICE ENDINGS SHALL BE MARKED WITH A 2" X 4" LUMBER (PRESSURE TREATED) EXTENDING 4 FEET ABOVE GRADE, WITH WATER SERVICES SECURED 12" MAXIMUM ABOVE THE GROUND.
- ALL WATER VALVES, INCLUDING CONCRETE COLLAR (WITH DEBRIS CAP), SHALL BE ADJUSTED TO FINISHED GRADE AND THE VALVE BOX LID, PAINTED BLUE TO MAKE THEM PLAINLY MSIBLE.
- 16. UPON FINAL ACCEPTANCE OF NEW WATER SYSTEMS, WATER VALVES SHALL BE COMPLETELY OPENED BY PUBLIC UTILITIES PERSONNEL AT NO TIME SHALL CONTRACTOR OPERATE ANY EXISTING VALVES WITHOUT ORANGE COUNTY UTILITIES INSPECTOR PRESENT.
- 17. ALL WATER MAINS SHALL BE NSF-APPROVED FOR POTABLE WATER USE.
- 18. PIPE USED IN WATER DISTRIBUTION SYSTEMS SHALL BE EITHER POLYVNYL CHLORIDE (PVC), OR DUCTILE IRON
- (a) ALL <u>PYC_PIPE</u> OF NOMINAL DIAMETER FOUR (4) INCHES THROUGH TWELVE (12) INCHES SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C900, LATEST EDITION. THE PYC PIPE SHALL HAVE A MINIMUM WORKING PRESSURE RATING OF 150PSI AND SHALL HAVE A DIMENSION RATIO (DR) OF 18.

 (b) ALL <u>DUCTILE IRON PIPE</u> SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI/AWWA A21.51/C151 AND HAVE A MINIMUM 350 PRESSURE CLASS RATING
- 19. PIPE USED IN GRAVITY SEWER CONSTRUCTION SHALL BE POLYMNYL CHLORIDE (PVC) OR DUCTILE IRON PIPE (DIP). WHERE REFERENCE IS MADE TO AN ASTM, ANSI, OR AASHTO DESIGNATION, IT SHALL BE THE LATEST REVISION.
- (a) PVC_GRAMTY_SEWER_PIPE (4 INCH 15 INCH), ASTM D3034, SDR 35 UNIFORM MINIMUM "PIPE STIFFNESS" AT FIVE (5) PERCENT DEFLECTION SHALL BE 46PSI. THE JOINTS SHALL BE INTEGRAL BELL ELASTOMERIC GASKET JOINTS MANUFACTURED IN ACCORDANCE WITH ASTM D3212 AND ASTM F477. APPLICABLE UNI-BELL PLASTIC PIPE ASSOCIATION STANDARD IS UNI-B-4. ALL PVC PIPE SHALL BEAR THE NSF-DW SEAL AND BE GREEN IN OVERALL COLOR. THE MINIMUM STANDARD LENGTH OF PIPE SHALL BETHIRTEEN (13) FEET. AND BE GREEN IN OVERALL COLOR. THE MINIMUM STANDARD LENGTH OF PIPE SHALL BE THIRTEEN (13) FEET.

 (b) <u>DUCTILE IRON</u> PIPE SHALL CONFORM TO ANS/AWWA A21.51/C151, CLASS THICKNESS DESIGNED FER
 ANS/AWWA A21.50/C150, WITH MECHANICAL OR PUSH ON JOINTS. AN INTERIOR PROTECTIVE LINING OF COAL
 TAR EPOXY SHALL BE PROVIDED WITH A MINIMUM DRY THICKNESS OF 30 MILS. DUCTILE IRON GRAVITY SEWERS,
 WHERE REQUIRED BY ORANGE COUNTY UTILITIES BASED ON GEOTECHNICAL INVESTIGATIONS, SHALL BE
 WITH POLYETHYLENE FILM, AWWA C105. SEE APPENDIX C. THE MINIMUM STANDARD LENGTH OF PIPE SHALL BE
 FIGHTEEN (13) FEET.

ADDITIONAL NOTES

- ALL EXISTING UTILITIES MUST BE FIELD VERIFIED AT ALL POINTS OF CONNECTION TO, AND AT ALL AREAS OF CONFLICT WITH PROPOSED UTILITIES, CONTRACTOR MUST NOTIFY ENGINEER OF RECORD IF A DISCREPANCY IS FOUND.
- ALL UTILITIES (INCLUDING PUMP STATION IF APPLICABLE) LOCATED OUTSIDE PUBLIC RIGHT-OF-WAYS AND PUBLIC EASEMENTS SHALL BE PRIVATELY OWNED AND MAINTAINED.

WATER SYSTEM TESTING REQUIREMENTS:

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

WHERE:
L = ALLOWABLE LEAKAGE, IN GALLONS PER HOUR
S = LENGTH OF PIPE TESTED, IN FEET
D = NOMINAL DIAMETER OF PIPE, IN INCHES
P = AVERAGE TEST PRESSURE DURING THE LEAKAGE TEST,
IN POUNDS PER SQUARE INCH (GAUGE)

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

SEWER SYSTEM TESTING REQUIREMENTS:

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

FDEP UTILITY CONSTRUCTION NOTES:

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

FDEP UTILITY SEPARATION REQUIREMENTS

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

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

- (1) HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPEUNES, AND ON—SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.
 - (a) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THEOUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECALMIED WATER REGULATED UNDER PART III OF CHAPTER 62—810, F.A.C.

RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62—610, F.A.C.

(b) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROWDE 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.

(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 82—610, F.A.C. THE MININUM 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.

(d) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON—SITE SEWIGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381,0065(2), F.S., AND RULE 64E—6.002, F.A.C.

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

- (2) <u>VERTICAL SEPARATION</u> BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER PIPELINES.
 - (g) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY— OR VACUUM—TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES, AND PREFERABLY IZ INCHES, ABOVE OR AT LEAST SIZ INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
 - (b) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE—TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAD SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12. INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
 - ABOVE THE OTHER PIPELINE.

 (c) AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSBLE 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, STORM SEWERS, STORM SEWERS, STORM SCORE, STORM SEVERS, STORM SEVER
- (3) SEPARATION BETWEEN WATER MAINS AND SANITARY OR STORM SEWER MANHOLES.
 - (a) NO WATER MAIN SHALL PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A SANITARY SEWER MANHOLE.
 - (b) EFFECTIVE AUGUST 28, 2003, WATER MAINS SHALL NOT BE CONSTRUCTED OR ALTERED TO PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A STORM SEWER MANHOLE OR INLET STRUCTURE.
- (4) SEPARATION BETWEEN FIRE HYDRANT DRAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS. NEW OR RELOCATED RIFE HYDRANTS WITH UNDERGROUND DRAINS SHALL BE LOCATED SO THAT THE DRAINS ARE AT LEAST THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYNING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 82-610, FA.C.; AT LEAST THREE FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED VACUUM—TYPE SANITARY SEWER; AT LEAST SIX FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED GRAVITY—OR PRESSURE—TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYNING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; AND AT LEAST TEN FEET FROM ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0065(2), F.S., AND RULE 64E-6.002, F.A.C.

LOCATION OF PUBLIC WATER SYSYEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.31-

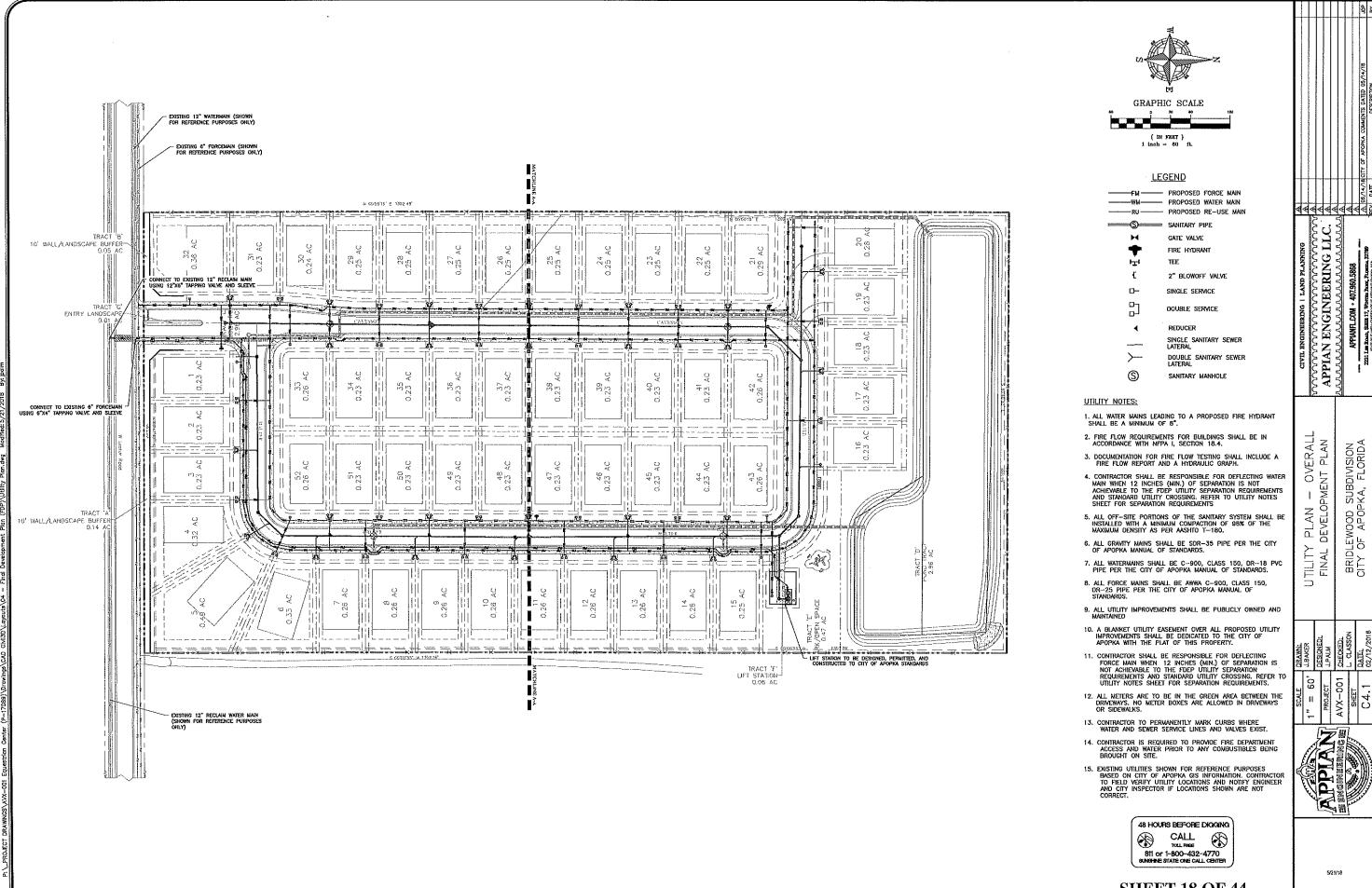
Other Pipe	Horizontal Separation	Crossings (1)	Joint Spacing @ Crossings (Full Joint Centered)
Storm Sewer, Stormwater Force Main, Rectained Water (2)	Water Main 3 ft. mininsum	Water Main 12 inches is the minimum, except for term sewer, then 6 inches in the minimum and 12 Inches is preferred.	Alternate 3 ft. minimum Water Main
Vacuum Sanitary Sener	Water Main 10 ft. preferred 3 ft. minimum	Water Main 12 inches preferred 6 inches minimum	Alternate 3 ft. minimum Water Main
Gravity or Pressure Sanitary Sewer, Sanitary Sewer Force Main, Reclaimed Water (4)	Water Main 10 ft proferred 6 ft. minimum (3)	Water Main 12 inches is the raininum, except for gravity server, then of inches is the raininum and 12 feeders it preferred.	Alternate 6 ft. minimum Water Main
On-Site Sewage Treatment & Disposal System	10 ft. minimum		7

(1) Water main should cross above other pipe. When water main must be (2) Reclaimed water regulated under Part III of Chapter (2-610, F.A.C. (3) 3 ll. for gravity sanitary sewer where the bottom of the water main is 100 actional mater not resoluted under Part III of Chapter (2-610, F.A.C.

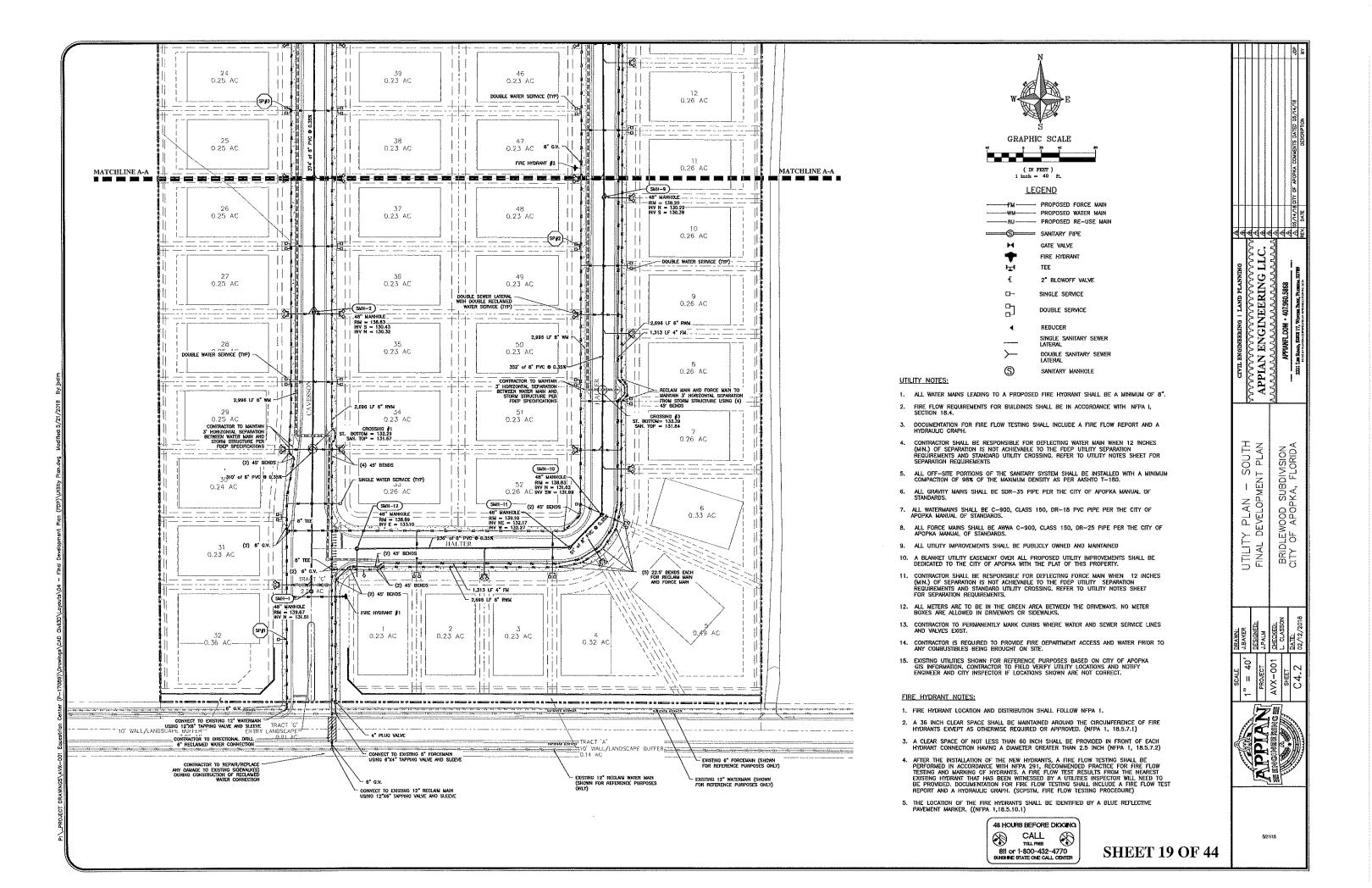
SHEET 17 OF 44

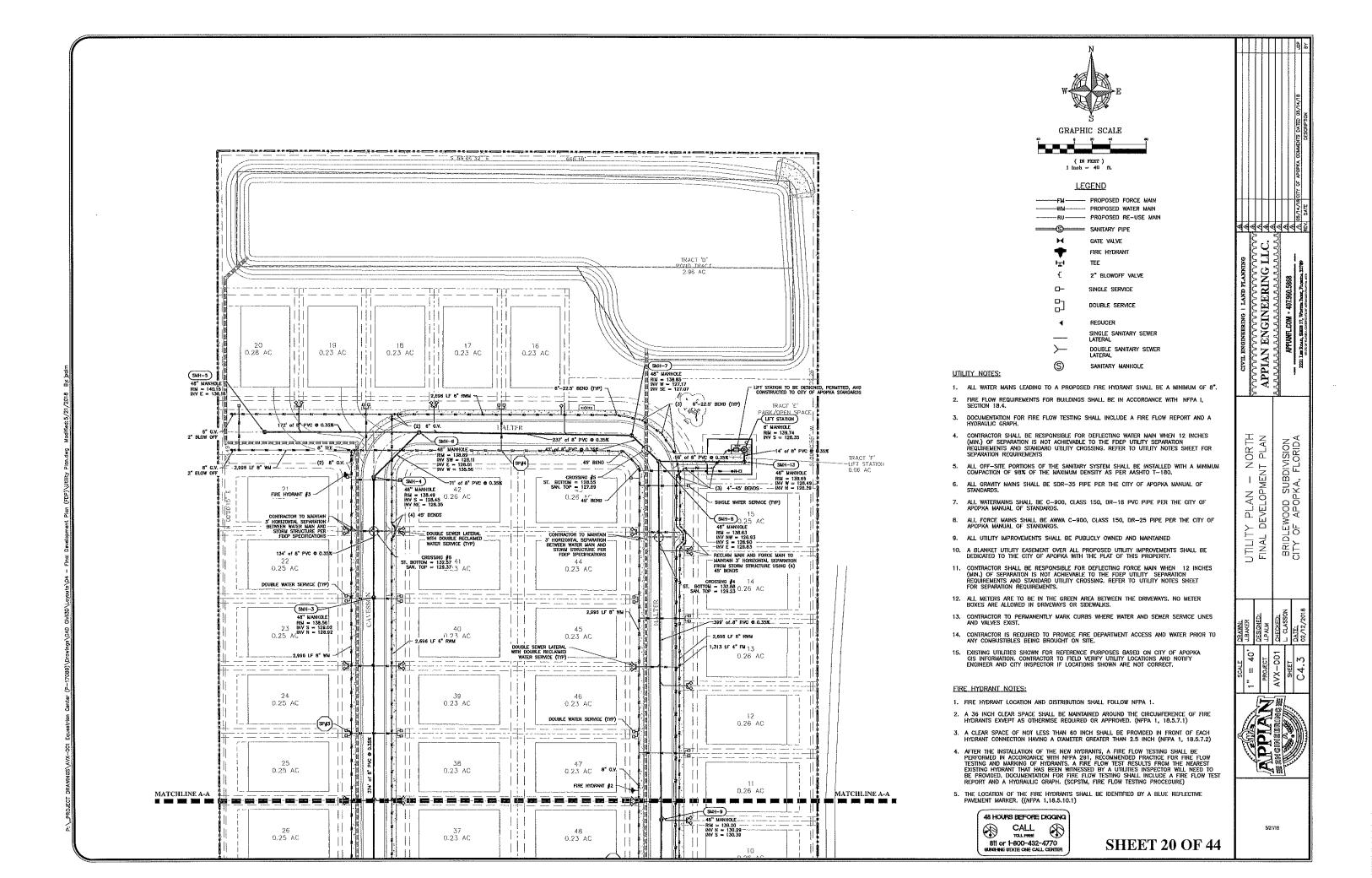
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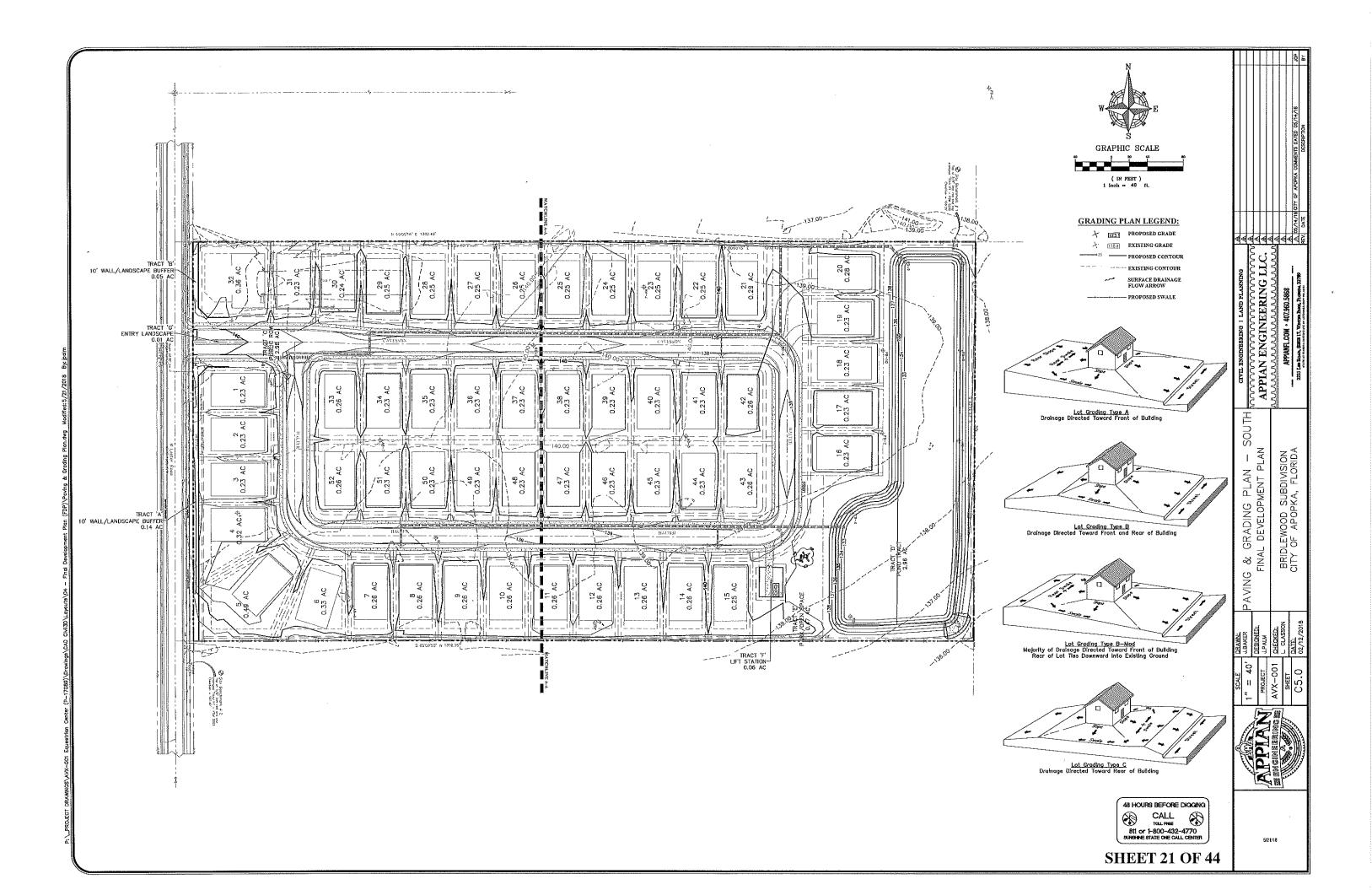
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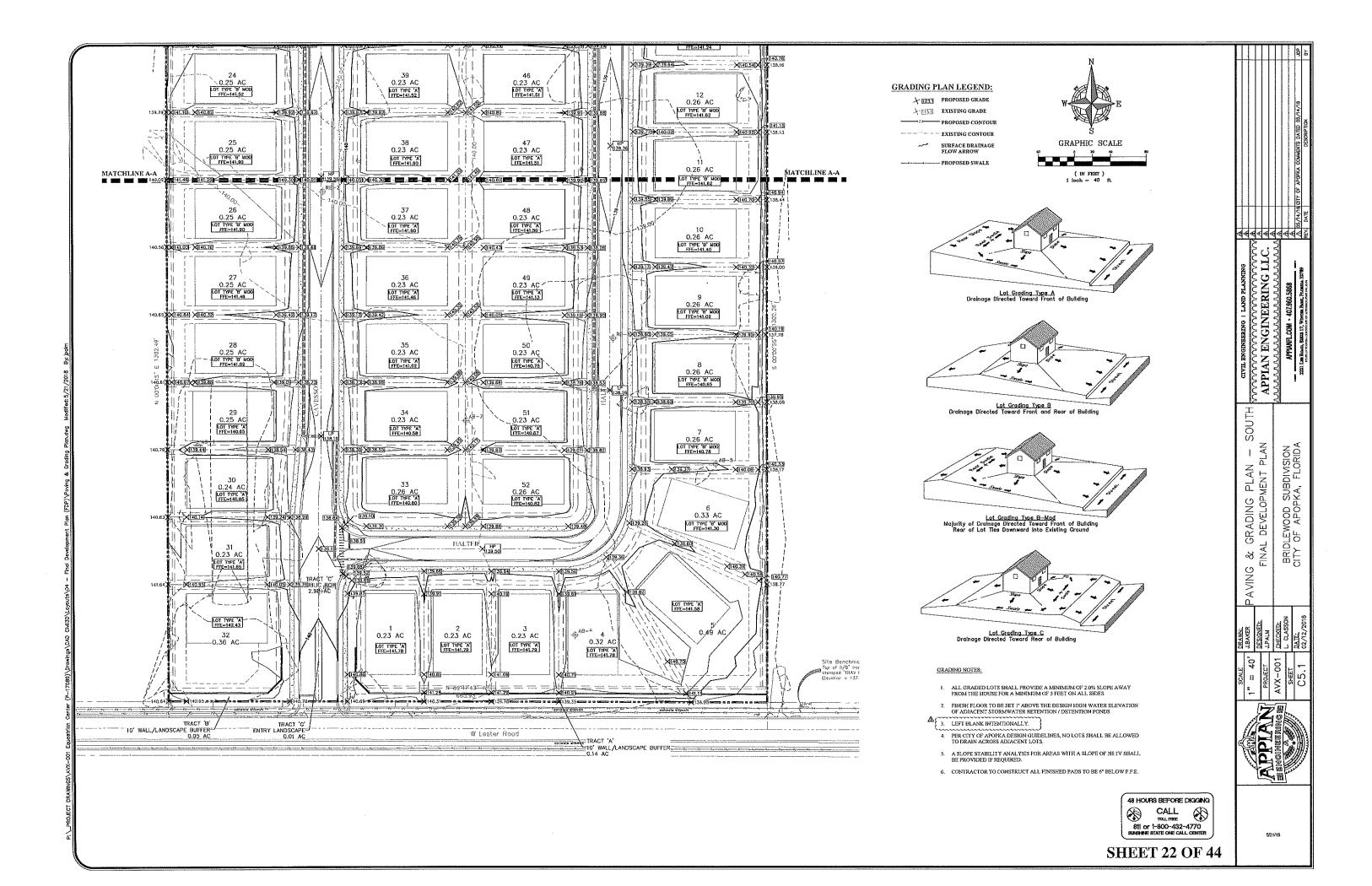


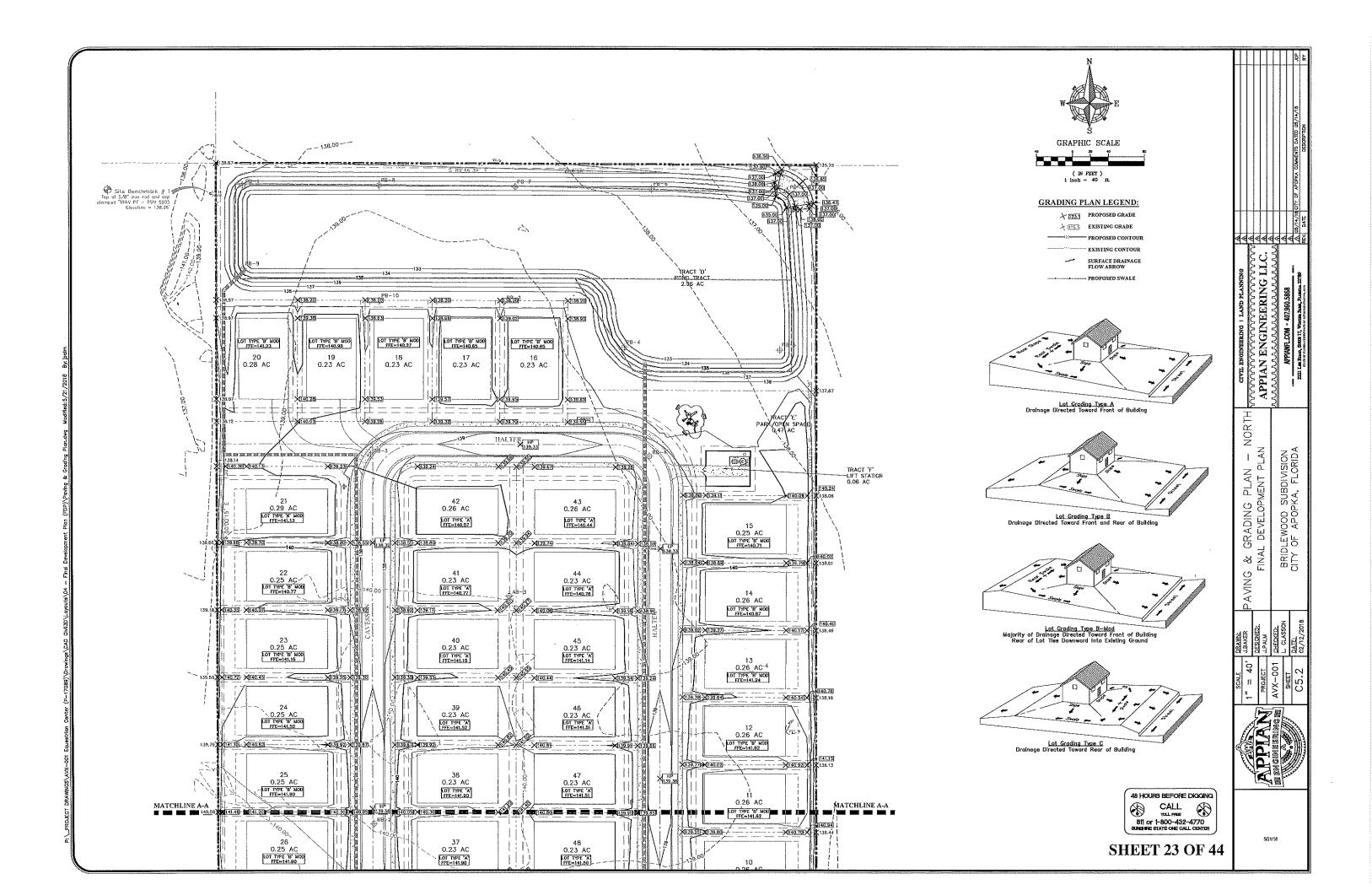
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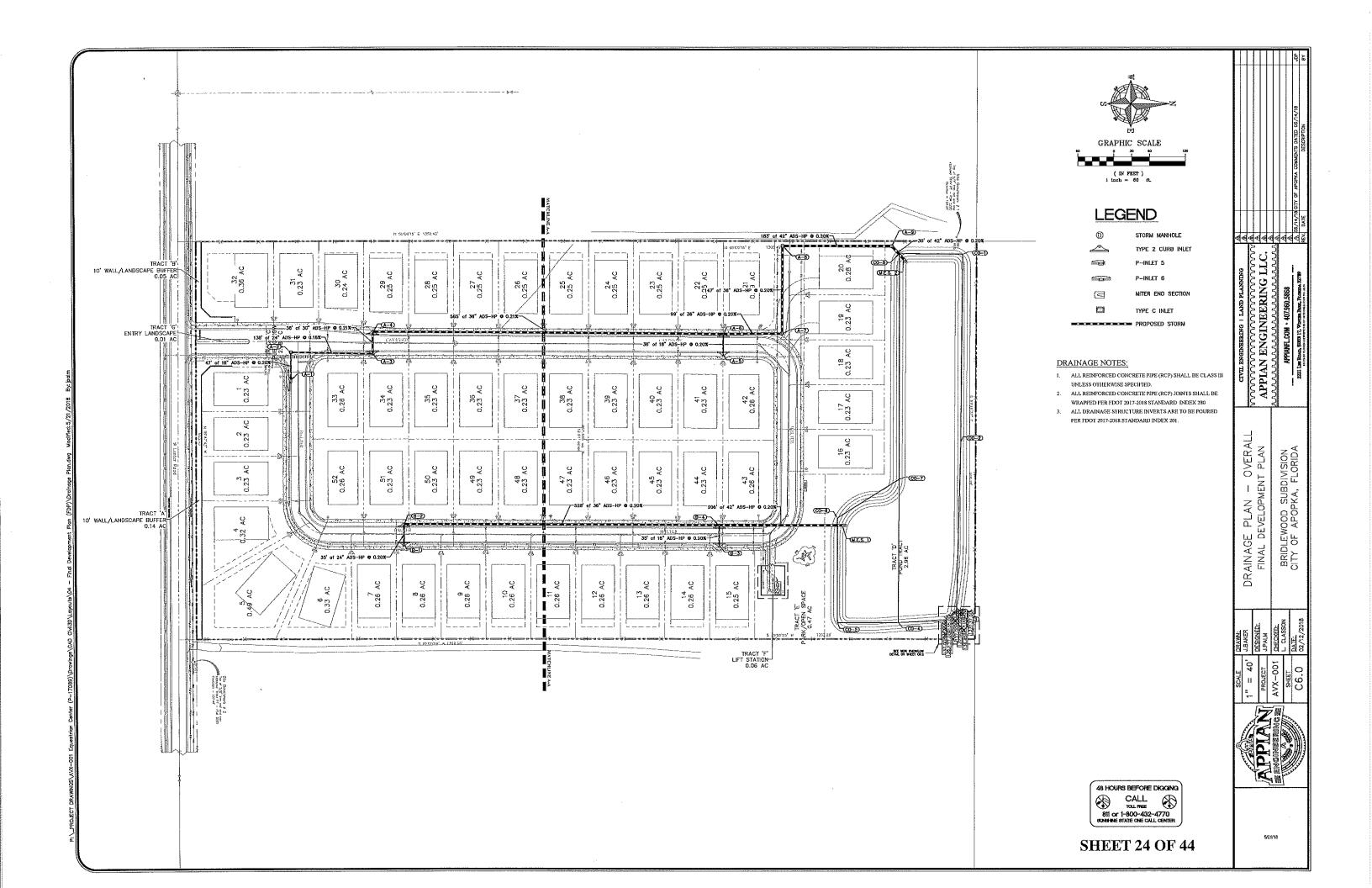


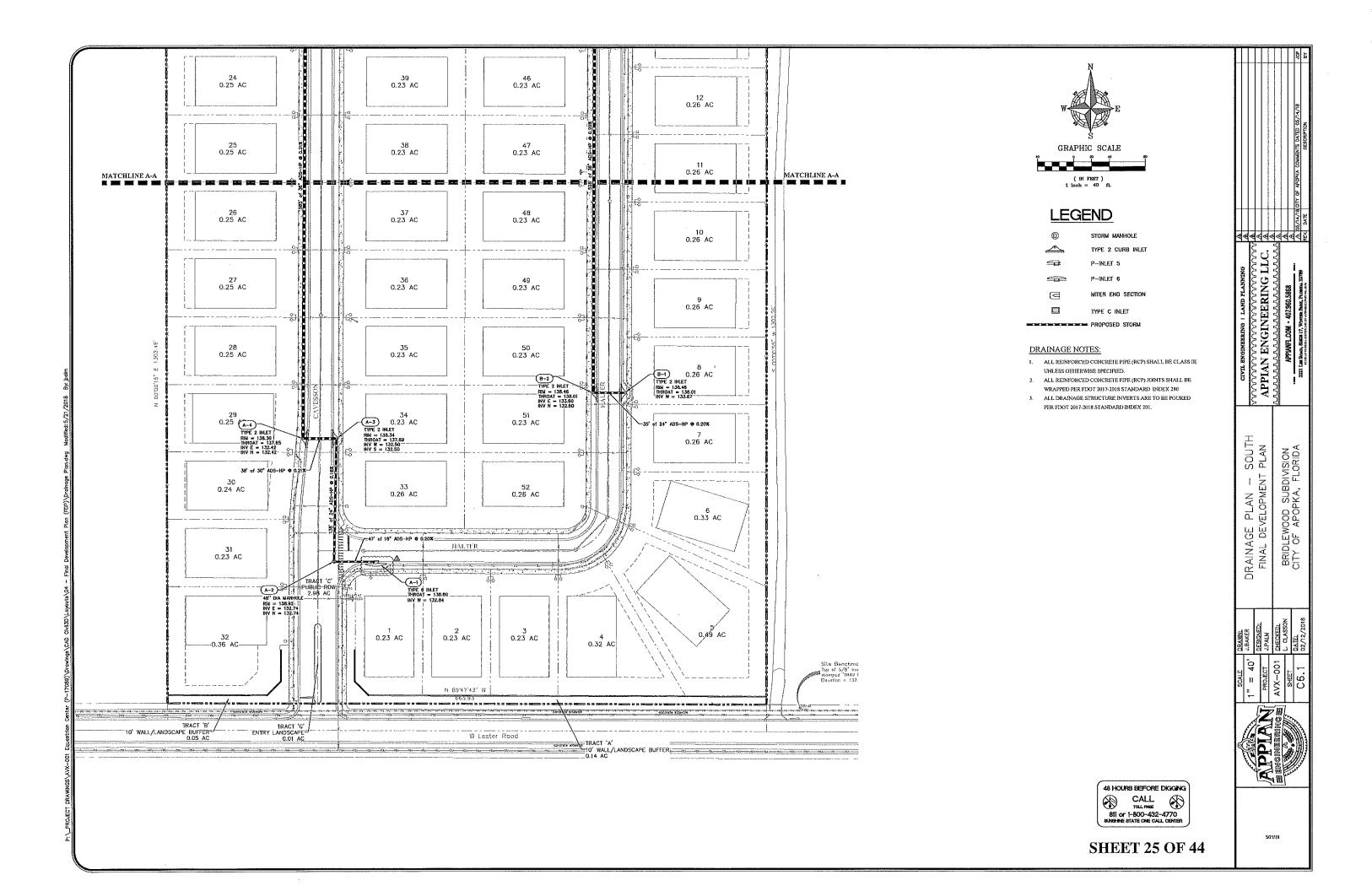


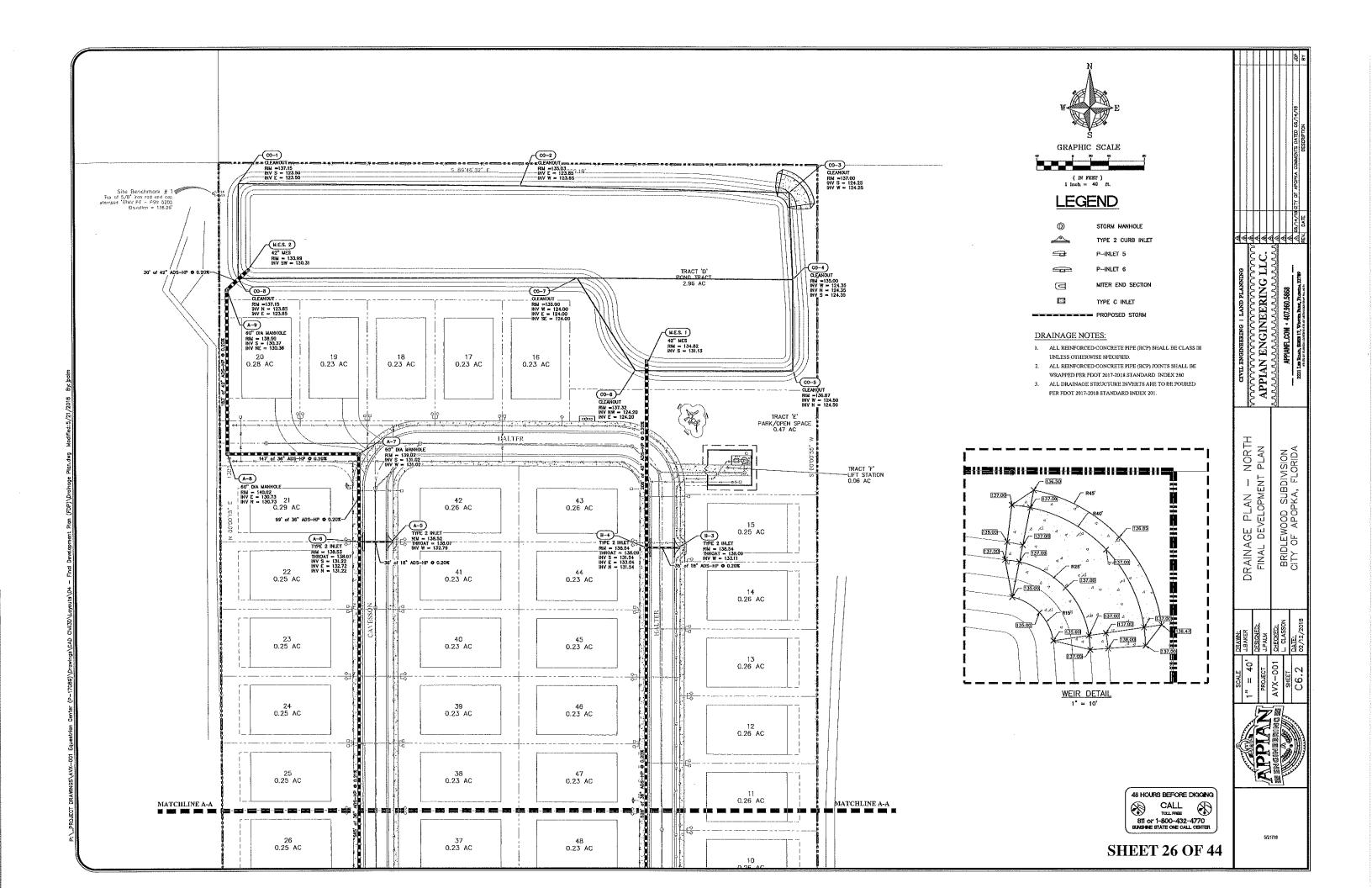


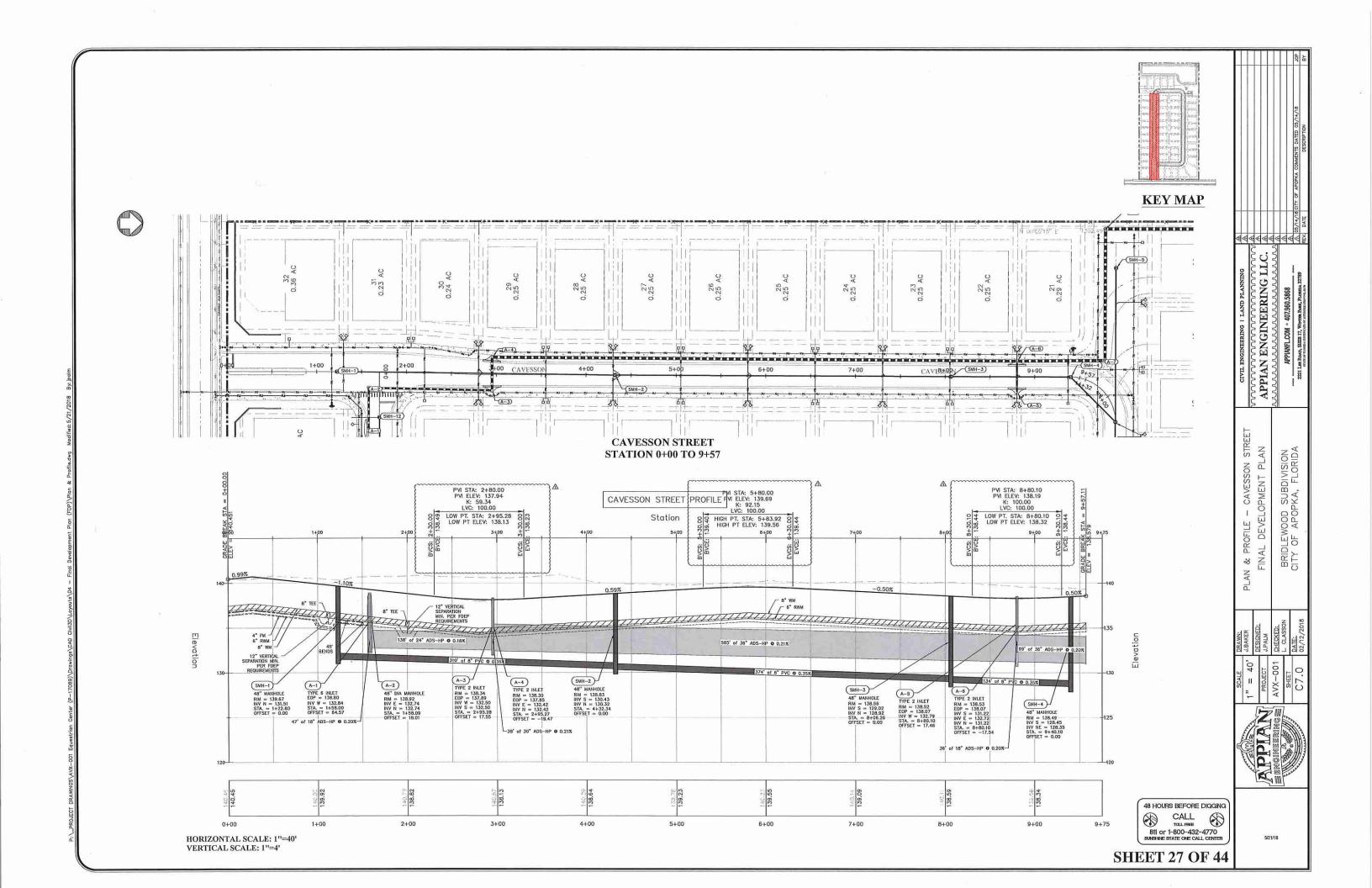


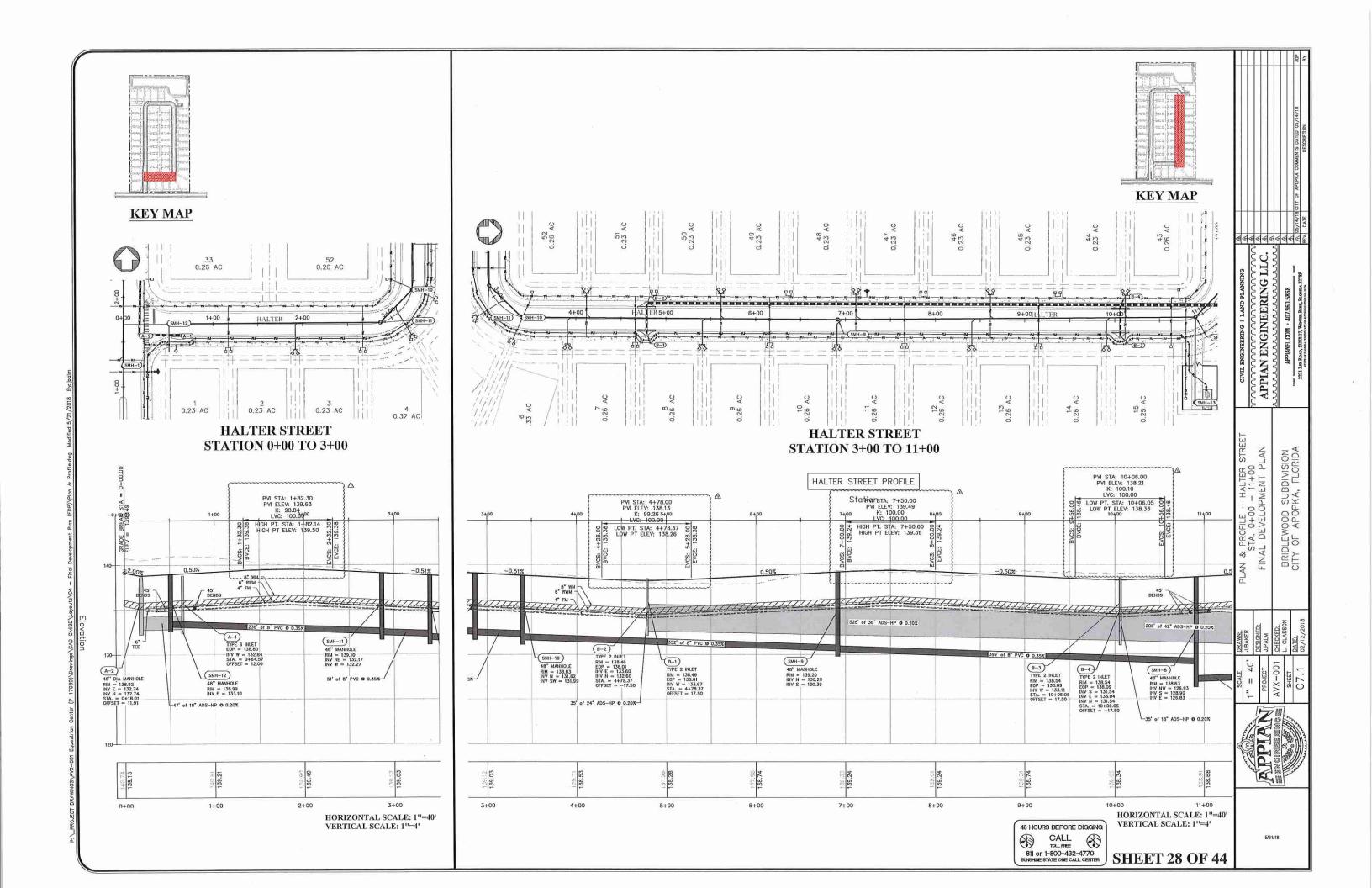




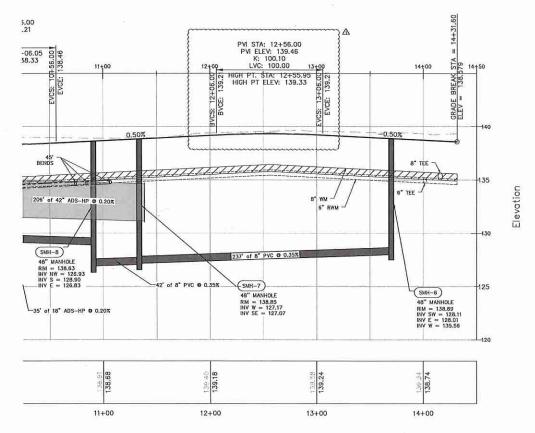




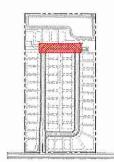




HALTER STREET STATION 11+00 TO 14+32



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



KEY MAP

हु उ BRIDLEWOOD SUBDIVISION CITY OF APOPKA, FLORIDA

48 HOURS BEFORE DIGGING

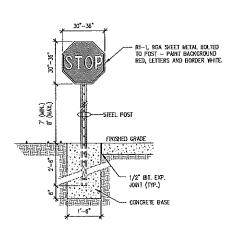
CALL
TOUL REE

811 or 1-800-432-4770
SURSHWE STATE ONE CALL CENTER

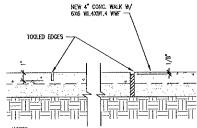
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SHEET 29 OF 44

.T DRAWINGS\AVX-001 Equestrian Centar (P-17089)\Drawings\CAD Civil3D\Layauts\04 - Final Development Plan (FDP)\Plan & Profile.di



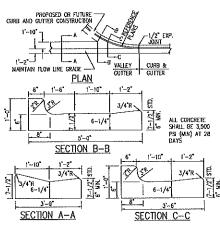
1 STOP SIGN N.T.S.



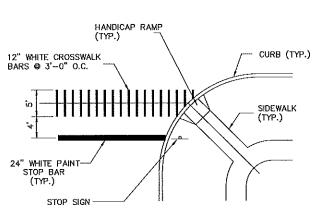
EXPANSION JOINTS SHALL BE LOCATED AT ALL CONCRETE WALK INTERSECTIONS, AT ALL DOOR OPENINGS AND AT 12" O.C. MAXIMUM.

2 EXPANSION JOINT (1/4" PREMOCIDED ASPHALT STRIP) SHALL BE SET 1/8" BELOW TOP OF WALK. SCORE HARK (1" DEPTH) SHALL BE 4" (MAX.) O.C.

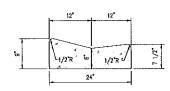
5 CONCRETE WALK



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



INTERSECTION CROSSWALK/ 2 STOP BAR DETAIL N.T.S.



1. CONSTRUCTION JOINTS SHALL BE PLACED AT EQUAL SPACES (10' MAX.) BETWEEN NORMAL EXPANSION JOINTS. CONSTRUCTION

2. FOR CURB & GUTTER CONSTRUCTED ADJUENT TO CONCRETE PAYENERT, 1/2" EXPANSION JOINT HATERIALS SHALL BE PLACED BETWEEN THE EDGE OF GUTTER AND EDGE OF PAVENENT.

PLAN SYMBOL

HOTE: MARN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE CUITER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6", URLESS OTHERWISE SHOWN ON PLANS.

11) TYPE "F" CURB AND GUTTER
N.T.S.

6 MIAMI CURB AND GUTTER (J,500 PSI (MI/I)) N.T.S.



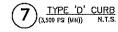
1. COST OF 2-#4 BARS (CONT.) SHALL BE INCLUDED.

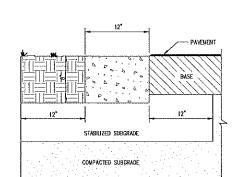
2. PROYOE 2-#6 SMOOTH BARS W/ EXPANSION CAPS AT EACH EXPANSION JOINT, 20'-0" O.C. MAX.

EDGE OF DETECTABLE WARNING

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

4. ENDS OF VERTICAL CURB SHALL TRANSITION FROM FULL TO ZERO HEIGHTS (N 3 FEET.





(8) RIBBON CURB 3500 PSI (NIN.)

2.35* DOME PATTERN SHALL BE IN-LINE NOTES:

~TRUNCATED DONE

-O O O (SEE DETAIL)

-0000

0000

PLAN VIEW

INTEGRAL DOME

TRUNCATED DOME

3 DETECTABLE WARNING N.T.S.

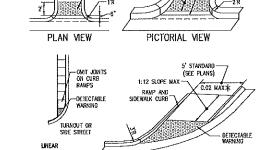
- CURB RAMP RUNNING SLOPES SHALL NOT BE STEEPER THAN 1:12 AND CROSS SLOPE SHALL BE 0.02 OR FLATTER.
- 2. DETECTABLE WARNING SURFACES SHALL BE CONSTRUCTED BY TEXTURING OR APPLING A TRUNCATED DOME MATERIAL IN CONFORMANCE WITH THE U.S. DEPARTMENT OF JUSTICE A.D.A. STANDARDS FOR ACCESSBEE BESIGN, A.D.A. ACCESSBELLY CONDENSES, SECTION, 4.9.2. TRANSITION SLOPES ARE NOT TO HAVE DETECTABLE WARNINGS.
- 3. WHERE A CURB RAMP IS CONSTRUCTED WITHIN AN EXISTING WHERE A CORN HAVE JO SOUTHER AND/OR SOUTHER, THE EDISTING CURB, CURB AND GUTTER MANJOR SOUTHER, THE EDISTING CURB OR CURB AND GUTTER SHALL BE REMOVED TO THE EXPREST JOINT SECOND THE CURB TRANSPORTS OR TO THE EXTENT THAT NO REMAINING SECTION OF CURB OR CURB AND GUTTER IS LESS THAN 5 LOKE. THE EDISTING SOUTHER TRANSPORT SLOVE WALK ANDALIO OR TO THE EXTENT THAT NO REMAINING SECTION OF SOUTHER SECTION OF SOUTHER STANSPORT SLOVE WALK ANDALIO OR TO THE EXTENT THAT NO REMAINING SECTION OF SOLEWALK IS LESS THAN 5'.
- 4. WHERE ADJACENT WALFING SURFACES ARE COLORED OR ARE CONSTRUCTED WITH MATERIALS OTHER THAN STANDARD CLASS I PORTLAND EXPLIT CONCRETE IN ACCORDANCE WITH SECTION 522 OF THE SPECIFICATIONS, THE PLAN MUST PROVIDE FOR DETECTABLE WARNING SURFACE COLORS OR MATERIALS THAT PROVIDE THE INCESSARY CONTRAST, EITHER DARK-ON-LIGHT OR LIGHT-ON-DARK. (SAFETY YELLOW OR BRICK RED)
- RECOMMENDED MANUFACTURER: ENGINEERED PLASTICS, INC. (ARMOR BLE) OLYMPIC TOWERS, 300 PEAR, STREET, SCHE 200, BUFFALO, NY 14292. PHONE: (800) 682-2525



RAMP CURB

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

5' X 5' LEVEL LANDING AT TOP



OURD RAMPS SDEWALK CURB

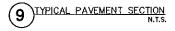
2' DETECTABLE WARNING

- (REFER TO DETAIL)



2" TYPE "SP-9.5" ASPHALTIC CONCRETE SURFACE COURSE TO BE APPLIED IN (2) 1" LIFTS 8' THICK LIMEROCK BASE COURSE WITH A MINIMUM LBR OF 100% PLACE LIMEROCK IN MAXIMUM 6' LIFTS EACH COMPACTED TO 98% OF OF THE MODIFIED PROCTOR MAX, DRY DENSITY. PERFORM COMPLIANCE TESTING TO A DEPTH OF 1 FOOT AT INTERVALS NOT TO EXCEED 300 FEET OR A MINIMUM OF TWO TEST LOCATIONS, WHICHEVER IS GREATER.

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

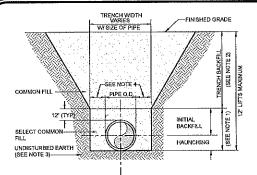


CIVIL ENGINEERING 1 LAND PLANNING A	APPIAN ENGINEERING LLC.	TAALAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	74 T FULL JULY 1970-1970 A 105-70-1970 T FULL STATE T FUL
CIVIL DETAILS	FINAL DEVELOPMENT PLAN	BRIDI FWOOD SUBDIVISION	CITY OF APOPKA, FLORIDA
DRAWN: J.BAKER	DESIGNED: J.PALM	X-001 CHECKED:	DAIE: 02/12/2018
SCALE N.T.S.	PROJECT	AVX-001	CB.0
APPIAN BENGINEBRINGE			

5/21/18

48 HOURS BEFORE DIGGING CALL, 811 or 1-800-432-4770 SUNSHINE STATE ONE CALL CENTER

· SHEET 30 OF 44



- NOTES:

 I. RITIAL BACKFILL AND HAUNCHING: SELECT COMMON FEL COMPACTED TO 95% (98% UNDER PARSMETT) OF THE MAXMUN DENSITY AS PER ASSITO T-180.

 2. RIENCH BACKFILL: COMMON FEL COMPACTED TO 95% (98% UNDER PARSMETT) OF THE MAXMUN DENSITY AS PER ASSITO T-180.

 3. PIPE BEDDING SHALL BE COMPACTED TO 95% (MN) OF THE MODIFIED PROCTOR MAXMUN MPT DENSITY. BEDDING FOR CASE BUSINES FOR BEDDING IN SHALL BE COMPACTED TO 95% (MN) OF THE MODIFIED PROCTOR SUBGRADE, SOLS ARE TOO NET TO COMPACT, OR AS DIRECTED BY THE EXIGNER.
- ENGNEER.

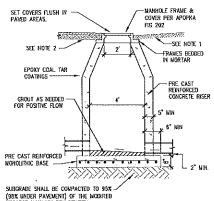
 1.15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX (12" MIN) FOR PIPE DIAMETER 24" AND LARGER.

 5. WARER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.

 6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.

 7. RINAL RESTORATION IN INPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE. REGULATIONS OF COVERING AGENCIES.

1 TRENCH DETAIL



SUBGRADE SHALL BE COMPACTED TO 95% (99% UNDER PAVEMENT) OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY.
(SEE NOTE 3)

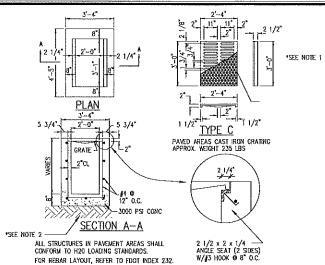
RULES.

IN UNPAYED AREAS TOP OF FRAVE SHALL BE 2" ABOVE FINISHED GRADE

1. IN LIMPAYEMENT STRUCTURES MUST CORPORM TO HZO LOADING STANDARDS

1.2 INCHES OF STOVE BRONG (FODT 1,87 STOVE, HIGH-CACAREOUS) CAN BE USED FOR BEDDING IF SUBGRADE SOILS ARE TOO WET TO COMPACT.

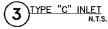


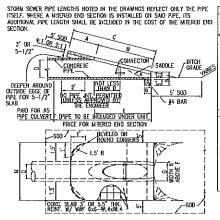


NOTES:

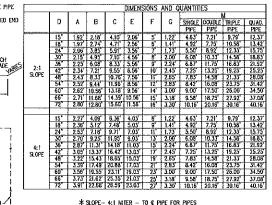
1. FOR PEDESTRIAN AND VEHICULAR USE, USE CAST IRON GRATE, FOR NON VEHICULAR USE, USE STEEL GRATE.

2. SUBGRADE SHALL BE COMPACTED TO 95% (98% UNDER PAYENENT) OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY.





4 MITERED END SECTION (RCP)
FDOT STD. INDEX 272 N.T.S.



* SLOPE- 4:1 MITER - TO & PIPE FOR PIPES 18" AND SMALLER 2:1 FOR PIPES 24" AND LARCER 2:1 MITER - TO & PIPE FOR PIPES 18" AND SWALLER 1:1 FOR PIPES 24" AND LARGER

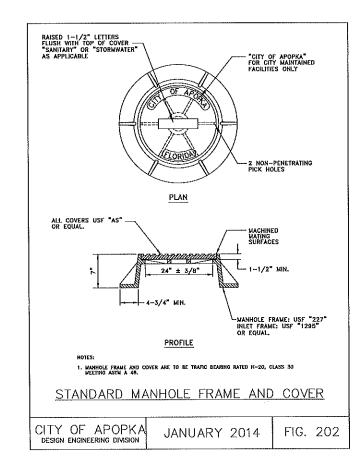
AGINEERING 1

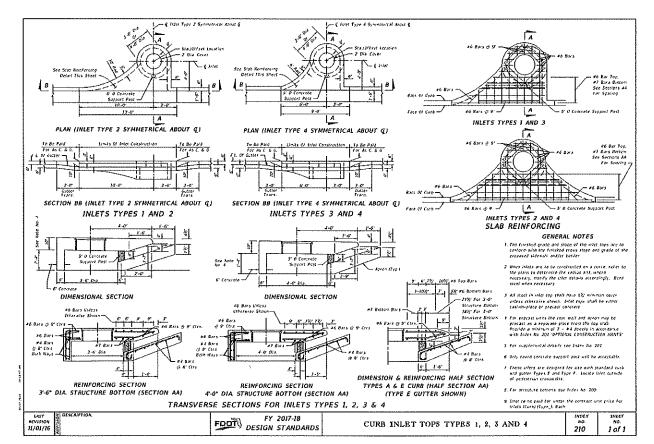
LEWOOD SUBDIVISION OF APOPKA, FLORIDA

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5/21/18

DRAINAGE FINAL DEVELO

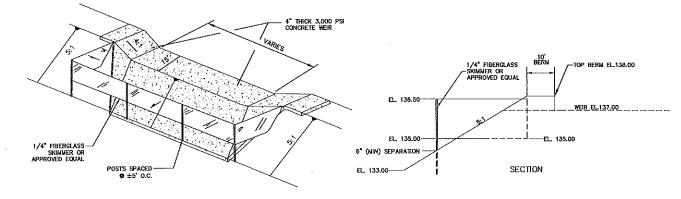




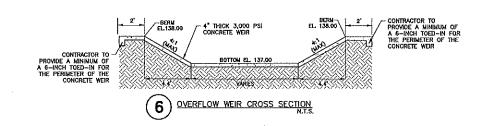
(5) TYPE 1,2 3 AND 4 INLETS N.T.S.

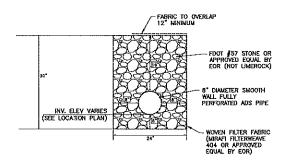


5 TYPE 5 & 6 INLETS N.T.S.



7 SKIMMER FOR OVERFLOW WEIR N.T.S.





TYPICAL CROSS—SECTION

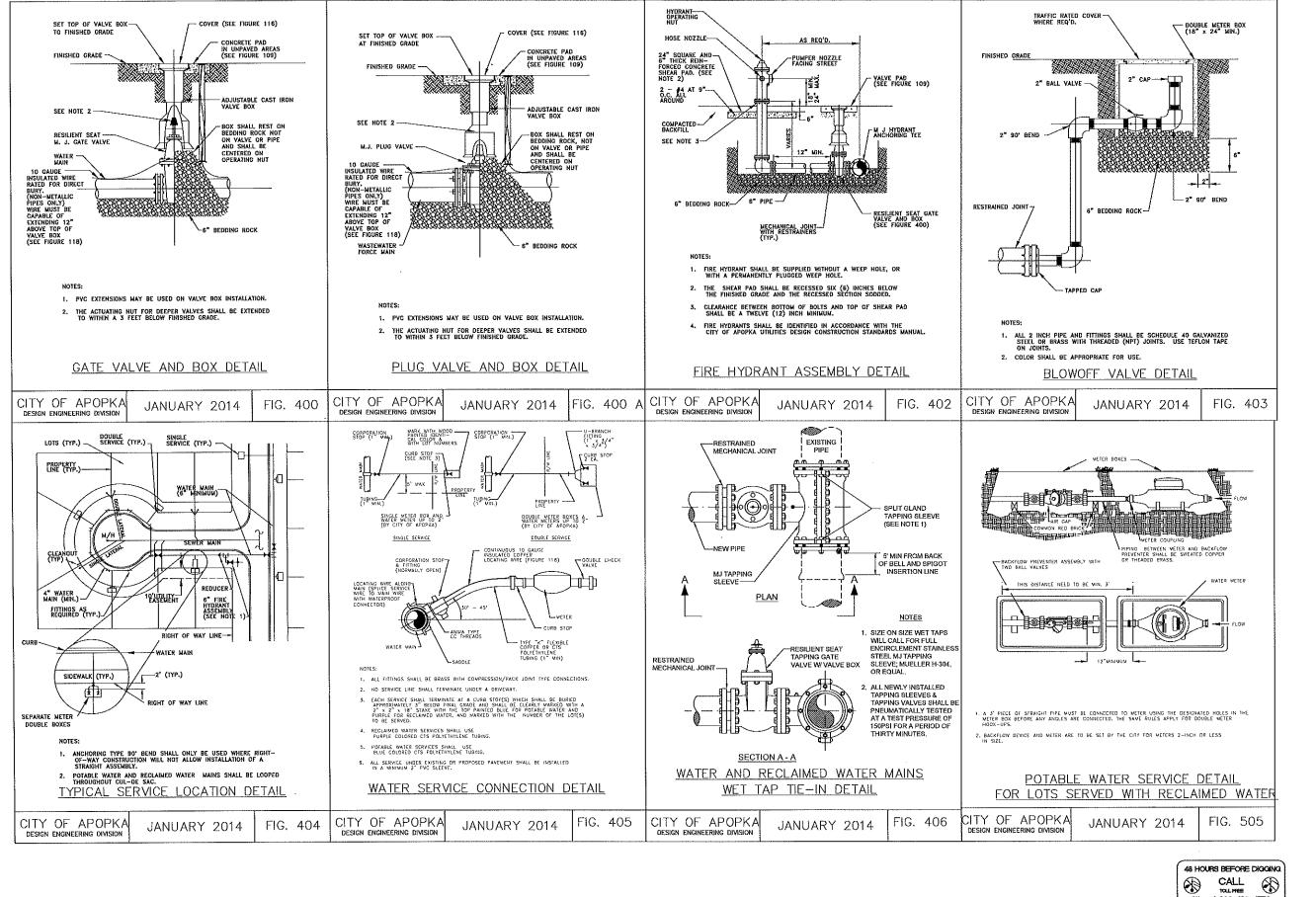
PROPOSED GROUNDWATER INTERCEPTOR DRAIN
LOCATED AT CENTERLINE OF 10 FOOT WIDE TRENCH

48 HOURS BEFORE DIGGING
CALL
TOLL FIEE
811 OF 1-800-432-4770
BUNSHINE STATE ONE CALL CENTER

SHEET 32 OF 44

DRAINAGE DETAILS FINAL DEVELOPMENT PLAN BRIDLEWOOD SUBDIVISION CITY OF APOPKA, FLORIDA

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811 or 1-800-432-4770 SUNCHESTATE ONE CALL CENTER

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www. ENGINEERING

DETAILS

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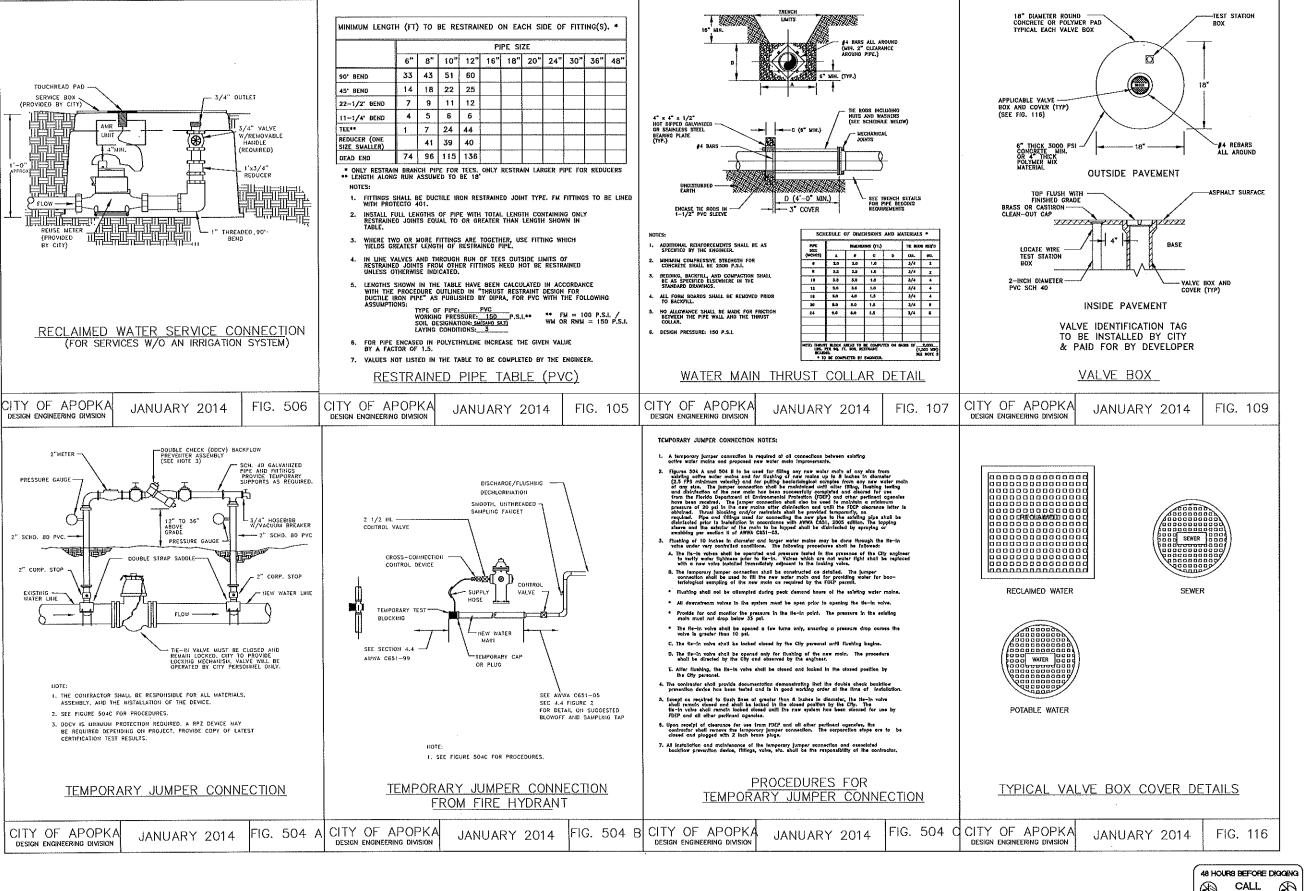
SUBDIVISION PKA, FLORIDA

BRIDLEWOOD CITY OF APOP

AVX-001
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5/21/18



CALL 811 or 1-800-432-4770 BUNGHINE STATE ONE CALL CENTER । ଏକ ଶ୍ରଶ୍ରଶ୍ରଶ୍ରଶ୍ରଶ୍ର

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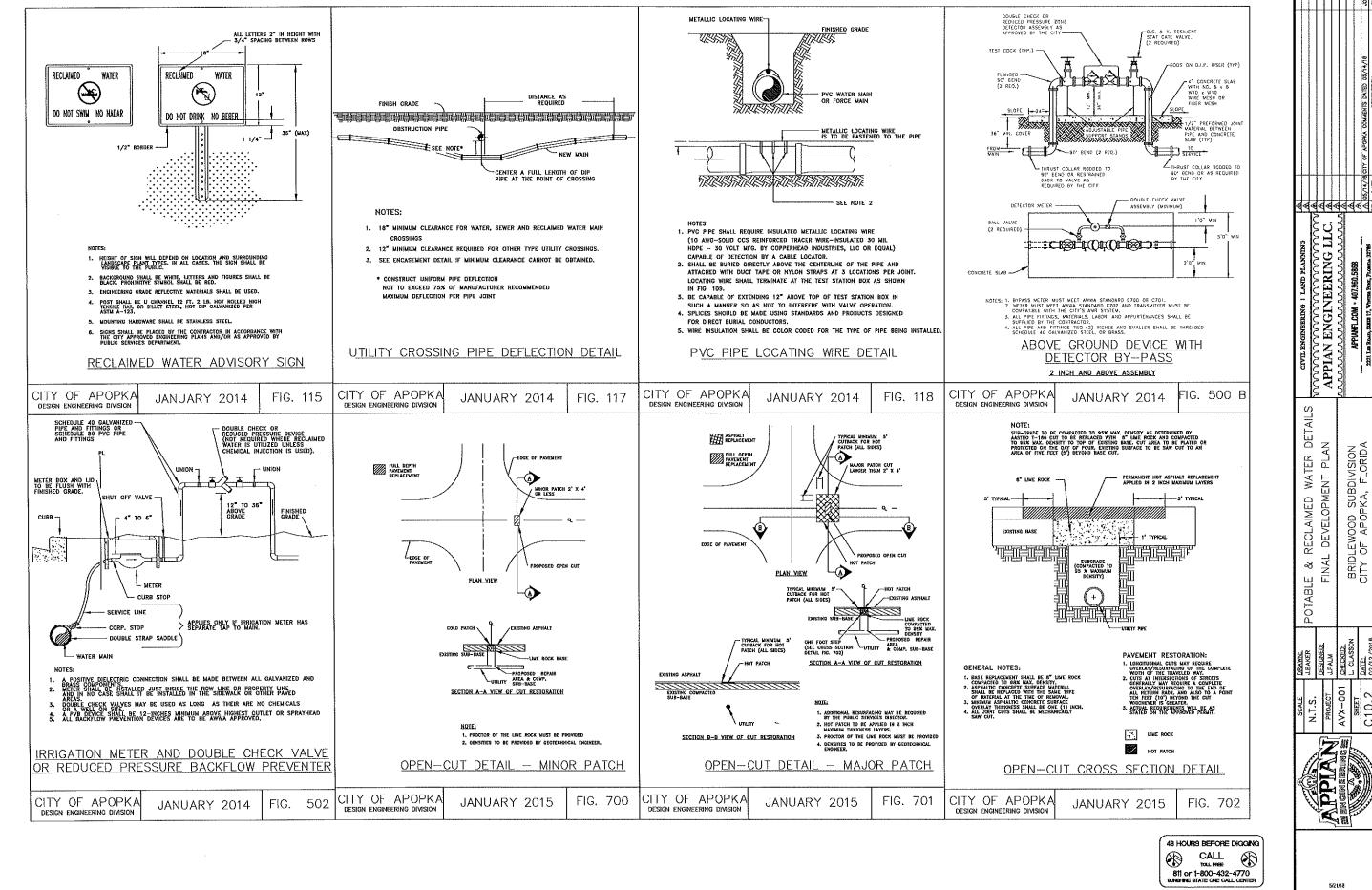
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WATER DE

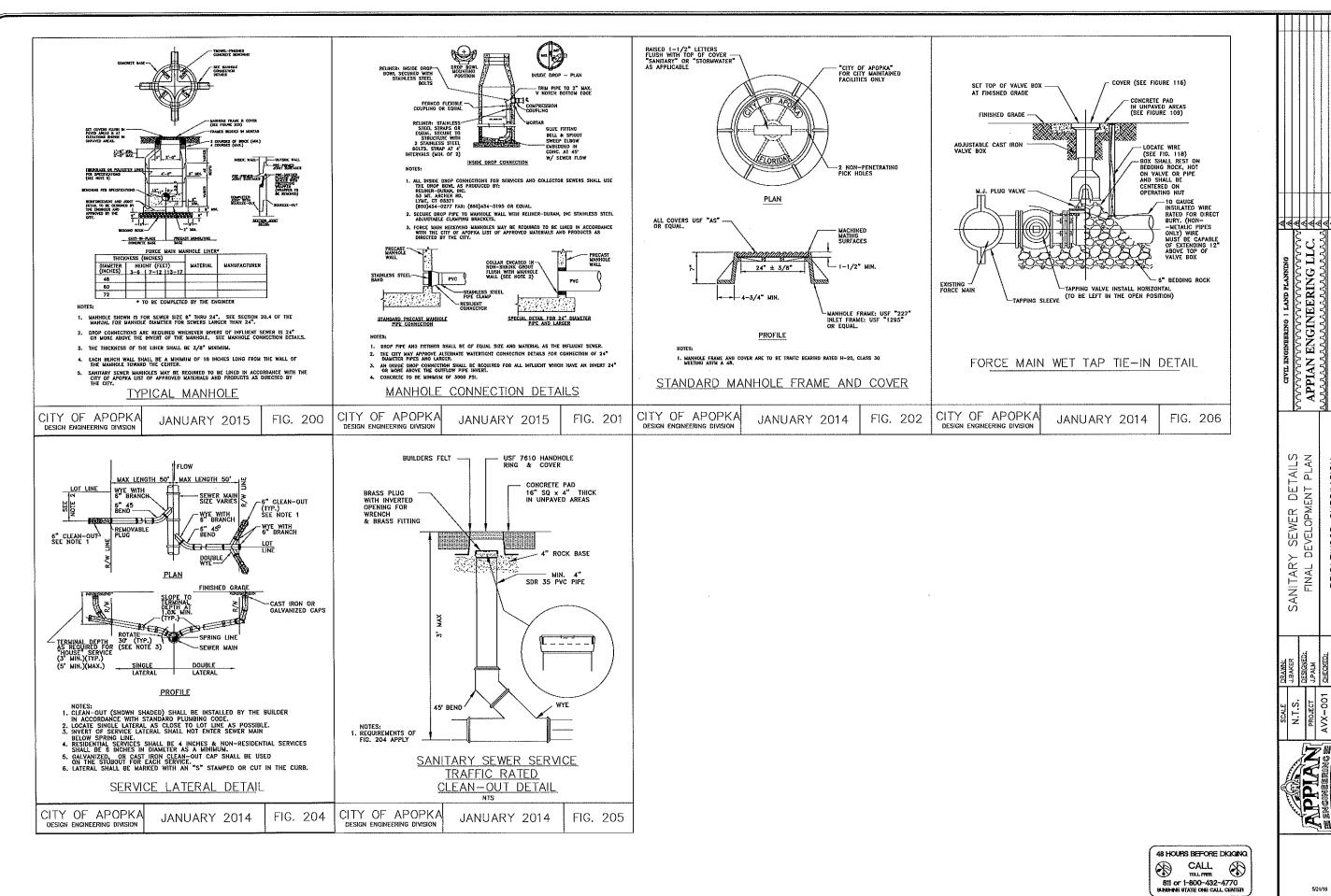
100D SUBDIVISION APOPKA, FLORIDA

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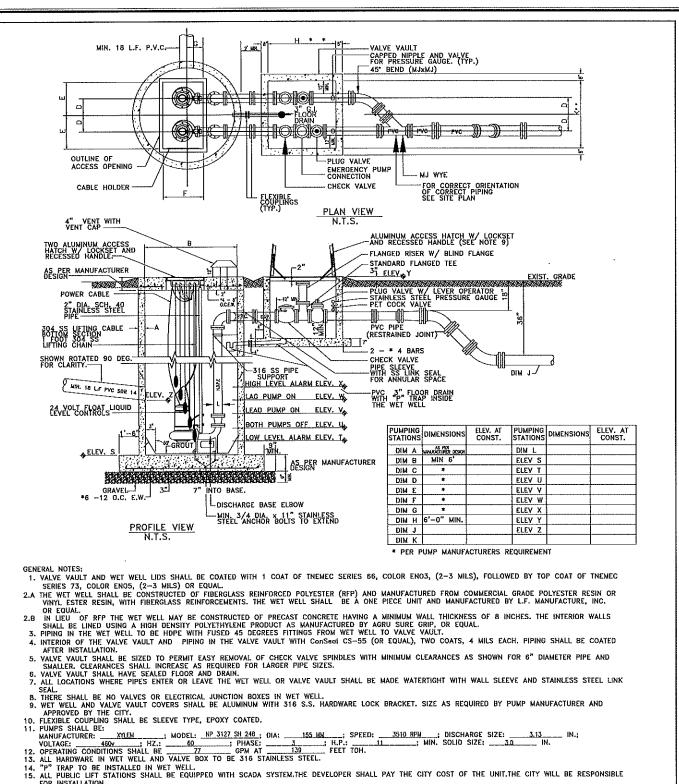
SHEET 35 OF 44



SHEET 36 OF 44

5/21/18

BRIDLEWOOD SUBDIVISION CITY OF APOPKA, FLORIDA



PUMP STATION DETAIL

16. ALL LIFT STATIONS SHALL BE FENCED WITH DECORATIVE STONE OR BRICK OR AS DIRECTED BY THE CITY.

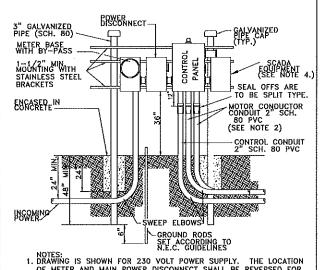
17. ALL LIFT STATIONS SHALL HAVE A 10 FEET WIDE CONCRETE ACCESS DRIVEWAY, 35' LONG FROM EDGE OF WET WELL TO BACK OF CURB.

18. ENGINEER SHALL PROVIDE A SCALED (1" = 20' MIN.) SITE SPECIFIC DETAIL.

CITY OF APOPKA **DESIGN ENGINEERING DIVISION**

JANUARY 2014

FIG. 301



- NOTES:

 1. DRAWING IS SHOWN FOR 230 VOLT POWER SUPPLY. THE LOCATION OF METER AND MAIN POWER DISCONNECT SHALL BE REVERSED FOR 480 VOLT SUPPLY.
- 2. WHEN TWO (2) SEPARATE CONDUCTOR—TYPE MOTORS ARE USED, CONDUIT SHALL BE INCREASED TO THREE (3) INCH. 3. POWER SUPPLY SHALL BE UNDERGROUND TO THE PUMP STATION AND SHALL BE THREE (3) PHASE FROM A THREE (3) PHASE
- 4. STUB OUT UNISTRUT LONG ENOUGH TO ACCOMODATE A 24"x24" SCADA EQUIPMENT CABINET. CITY TO INSTALL SCADA EQUIPMENT CABINET.

DUPLEX PUMP STATION CONTROL PANEL INSTALLATION DETAIL

JANUARY 2014

FIG. 302

(SEE NOTE 4.) MECHANICALLY INTERLOCKED PLO A PL2 PL3 PL4 PL1 Θ Θ HOA AMS LOW LEVEL BYPASS 1-2 2-1 AUTO OFF ON **D** • O O RESET RESET 1. OUTER DOOR REMOVED TO SHOW DEADFRONT LAYOUT NEWA TYPE 3R 304 S.S. ENCL. WITH CONTINUOUS HINGE ALL HARDWARE STAINLESS STEEL TYPICAL, ACTUAL LAYOUT MAY VARY WITH HORSEPOWER 2. SERIES 3 (Q-FRAME) CIRCUIT BREAKERS
3. GENERATOR OUTLET FOR 230V - PYLE NATIONAL MODEL
JRE4100/460V - CROUSE HINDS MODEL AR 2042.
4. THE HEIGHT OF THE ALARM LIGHT WILL NEED TO BE MADE
VISIBLE FROM OUTSIDE THE LIFT STATION. DUPLEX PUMP STATION CONTROL PANEL FRONT LAYOUT

JANUARY 2014

- POWER TO THE PUMP STATION SHALL BE THROUGH UNDERGROUND CONDUIT FROM SUPPLY SOURCE IN RIGHT-OF-WAY.
- 4. WALLS ARE TO BE BRICK OR DECORATIVE STONE.

CITY OF APOPKA DESIGN ENGINEERING DIVISION

CITY OF APOPKA

JANUARY 2014

FIG. 300

CONTROL PANEL AND ELECTRICAL INFORMATION IS FOR CONCEPTUAL PURPOSES. LIFT STATION MANUFACTURER IS REQUIRED TO PROVIDE SONED AND SEALED DAMINIOS FROM AN ELECTRICAL ENGINEER FOR CONTROL PANEL AND ELECTRICAL SPECIFICATIONS. THE ENGINEER OF

CITY OF APOPKA

DESIGN ENGINEERING DIVISION

NOTES:

1. CONTRACTOR TO GRADE LIFT STATION SITE SUCH THAT WET WELL AND VALVE WULLT ARE A MAN OF 3" ABOVE SURROUNDING GRADE ELEVATION. ALSO, DRAINAGE IS SLOPED AMAY FROM THESE STRUCTURES.

2. THE ELECTRICAL BETAILS ARE SHOWN FOR CONCEPTUAL PURPOSES ONLY AND THE SUPPLIER SHALL PROVIDE FINAL SIGNED & SEALED DRAWINGS FOR ALL. ELECTRICAL WOOK.

ELECTRICAL WORK,

CONTRACTOR TO VERIFY ELECTRICAL SERVICE PHASE,
CURRENT AND VOLTAGE AVAILABILITY AND INCLUDE
VERIFICATION OF SUCH IN SHOP DRAWING SUBMITTAL
PRIOR TO PURCHASE AND/OR INSTALLATION OF PUMP
AND CORRELATED ELECTRICAL LIFT STATION
COMPONISHTS



SHEET 37 OF 44

TSTATION DETA BRIDLEWOOD CITY OF APOP PROJECT AVX-001

SUBDIVISION PKA, FLORIDA

DETAIL:

ENGINEERING

FIG. 303

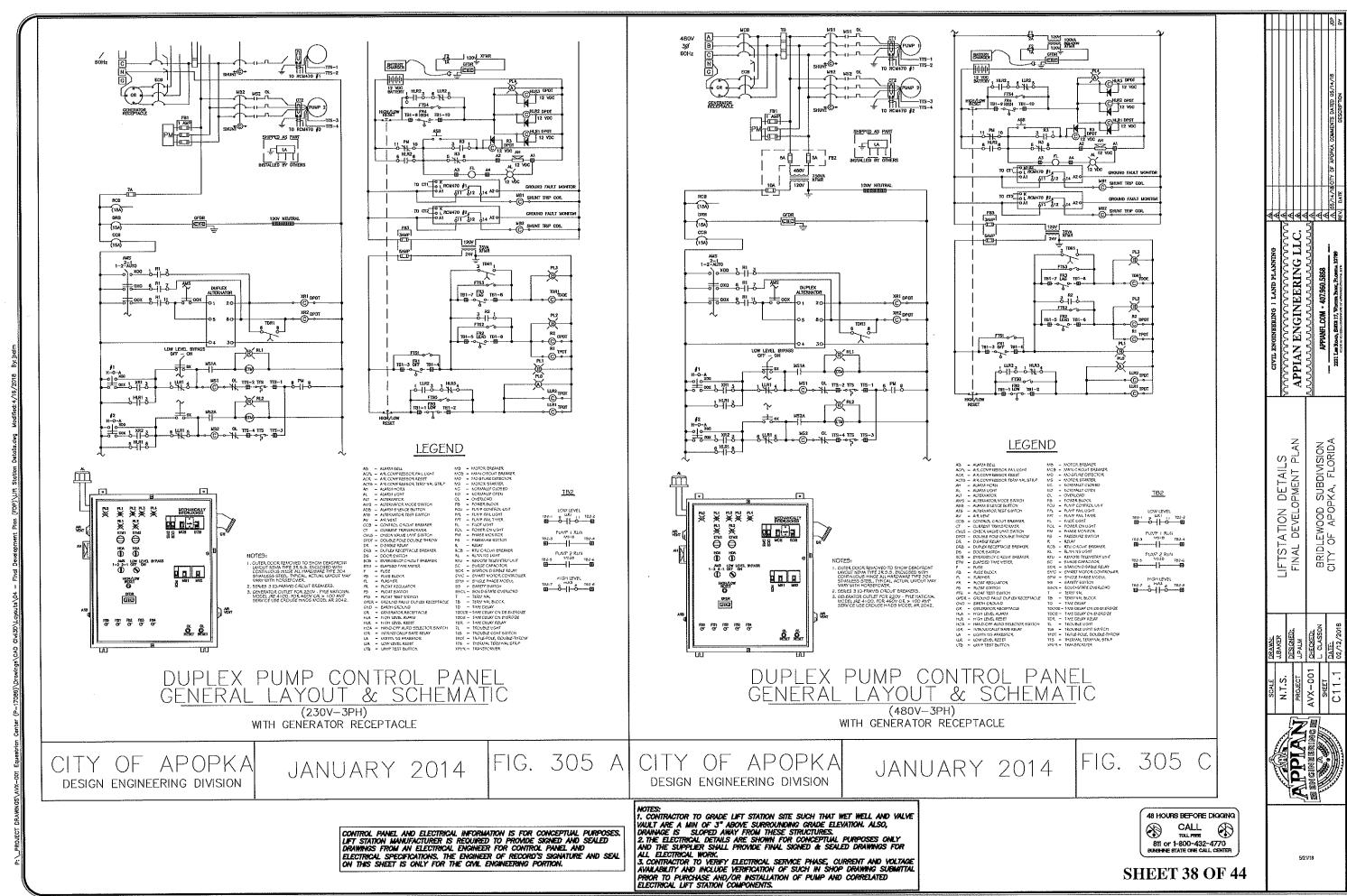
5/21/18

LIMITS OF SITE TO BE (MIN. 30' BY 30') DEDICATED TO CITY OF APOPKA 5' EASEMENT - RTU ANTENNA CONTROL DAYS (SEE DETAILS)
WET WELL
HOSE RACK
HOSE BIBB
TO BE MOUNTED
AGAINST THE WALL BEEKFESV PRESYNTER ...WATER METER TO BE LOCATED INSIDE PUMP STATION WALLS T 15' (MIN.) 5' SIDEWALK

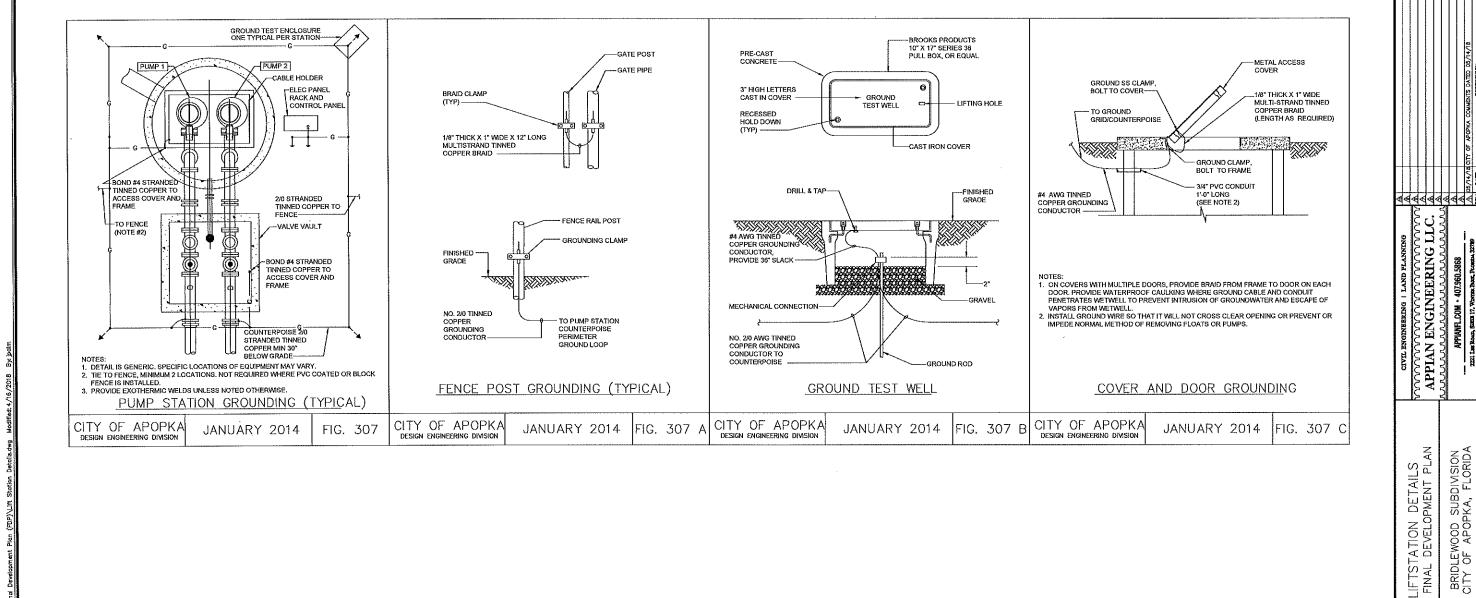
3. GATE TO BE DECORATIVE BLACK POWDER COATED ALUMINUM W/PICKET SPACING = OR < 4°

6. LIFT STATION WALL TO BE PLACED AT LEAST 15FT. BEHIND THE R/W LINE.

PUMP STATION TYPICAL SITE PLAN

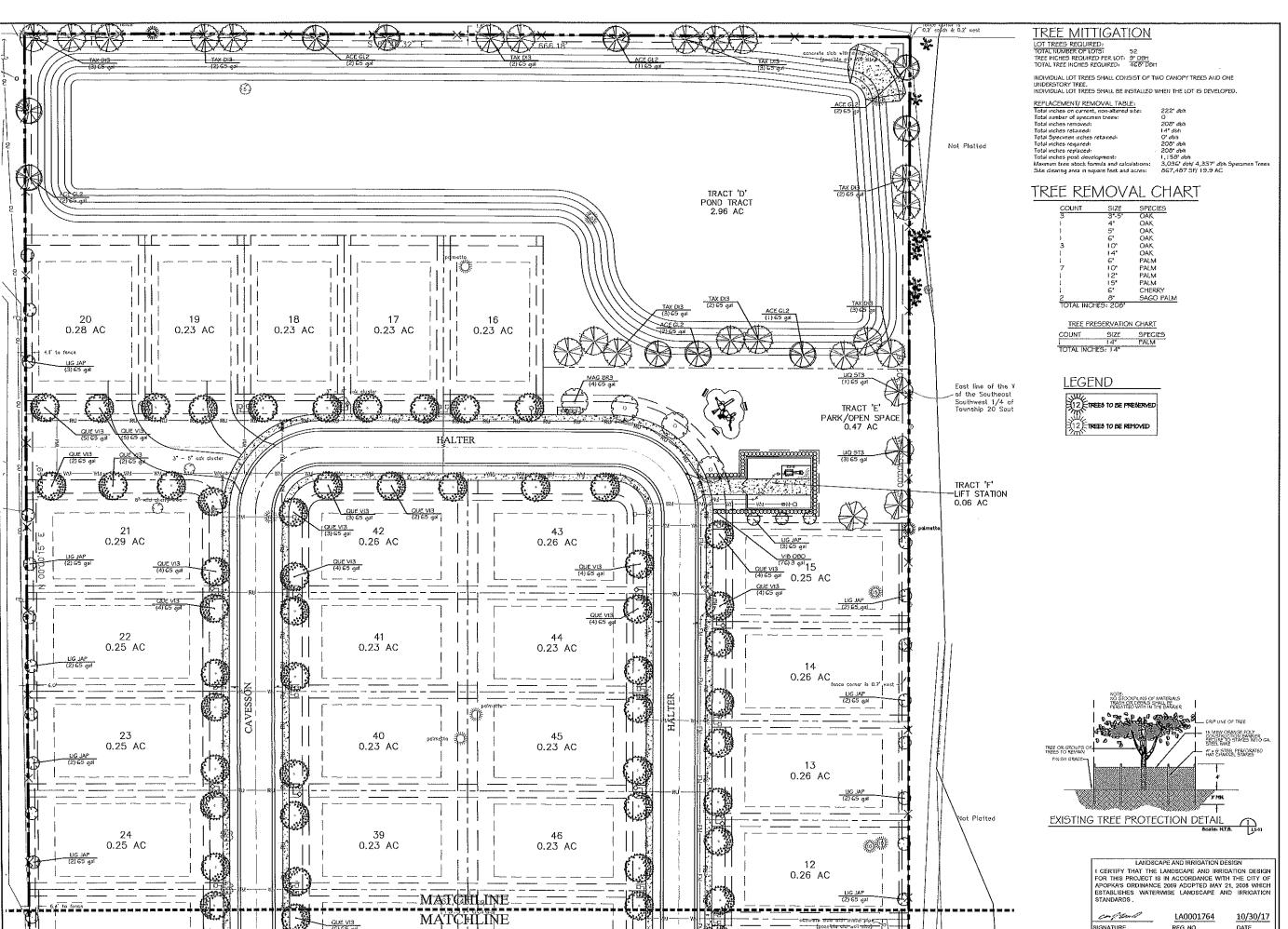


SHEET 38 OF 44



48 HOURS BEFORE DIGGING CALL BIT OF 1-800-432-4770 BUNGHINE STATE ONE CALL CENTER **SHEET 39 OF 44** BRIDLEWOOD SUBDIVISION CITY OF APOPKA, FLORIDA

5/21/18





Landscape Architecture
 Site Planning

4465 Gahriella Lane Winter Park, FL 32792 PH: (407) 484-3414 Px: (407) 671-1604

PROJECT AND OWNER

BRIDLEWOOD SUBDIVISION

City of Apopka Florida

Appian Engineering, LLC 2221 Lee Road, Suite 17 Winter Park, FL 32789 PH: (407) 960-5858

CONSULTANTS

LANDSCAPE ARCHITECT CARL J. KELLY JR., RLA

REG.#: 0001764

PROJECT NO.	APP05.01
DESIGNED BY	CJK
DRAWN BY	CJK
CHECKED BY	CJK
DATE	10/30/17

ISSUED FOR:

01/18/18 Site Changes 02/14/18 City Comments 03/18/18 Permit Set 04/16/18 Owner Changes 04/23/18 Owner Chonges 05/07/18 Owner Chonges 05/20/18 City Comment:

DRAWING SCALE



SCALE: 1"=30'-0"

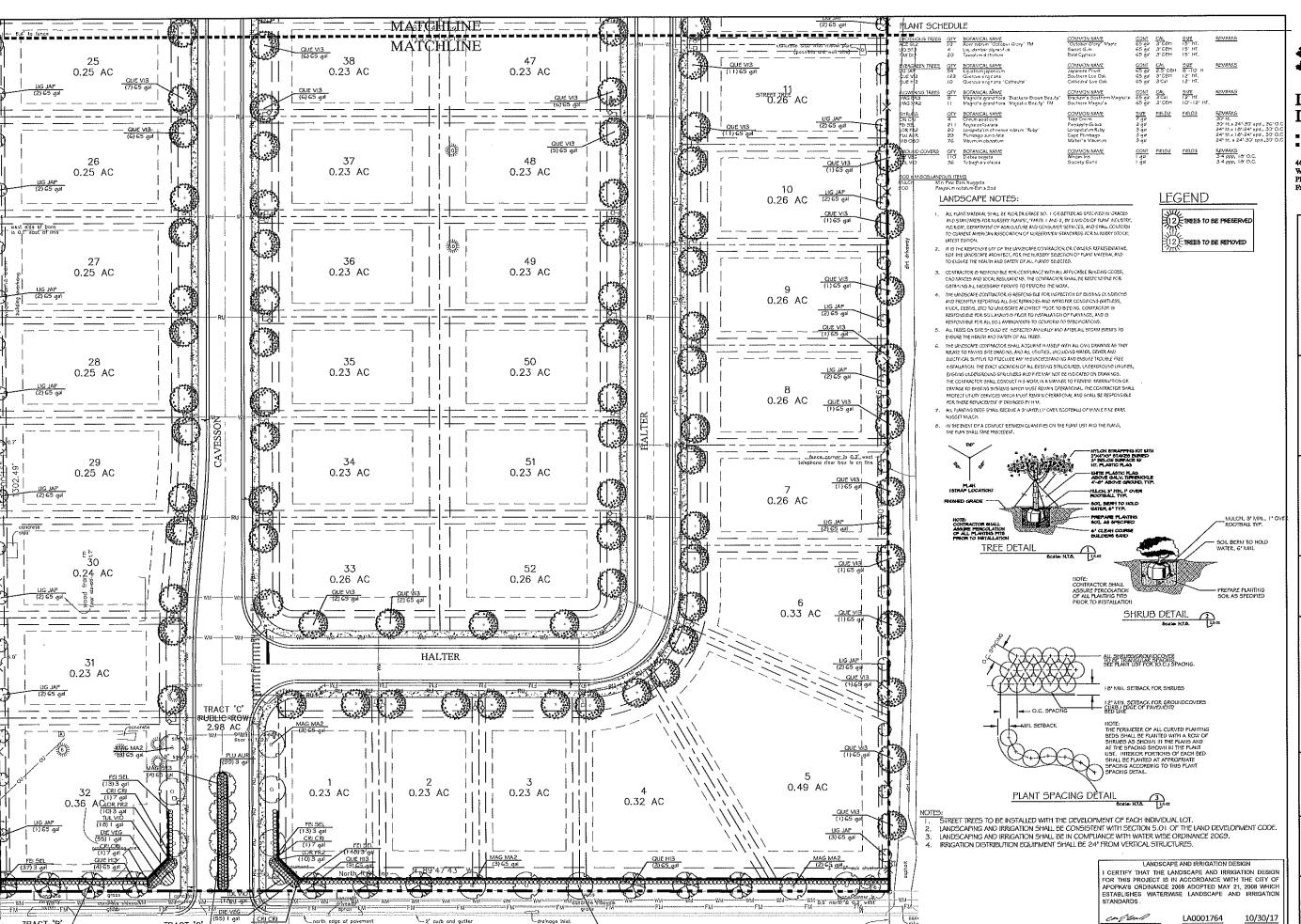
LANDSCAPE SITE PLAN & TREE MITIGATION

DRAWING NUMBER

DRAWING TITLE

LS-01

ate 40 of 44



SCAPE BUFFER

FNTRY LANDSCAP



Landscape Designs, LLC

- Landscape Architecture Site Planning

4465 Gabriella Lanc Winter Park, FL 32792 PH: (407) 484-3414 Fx: (407) 671-1604

PROJECT AND OWNER

BRIDLEWOOD SUBDIVISION

City of Apopka Florida

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CONSULTANTS

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DRAWN BY	CJI
CHECKED BY	CTI
Pa 4/407	40 /70 //-

ISSUED FOR: 01/18/18 Site Changes

02/14/18 City Comments 03/18/18 Permit Set 04/16/18 Owner Changes 04/23/18 Owner Changes 05/07/18 Owner Changes 05/20/18 City Comment

DRAWING SCALE



SCALE: 1"=30"-0"

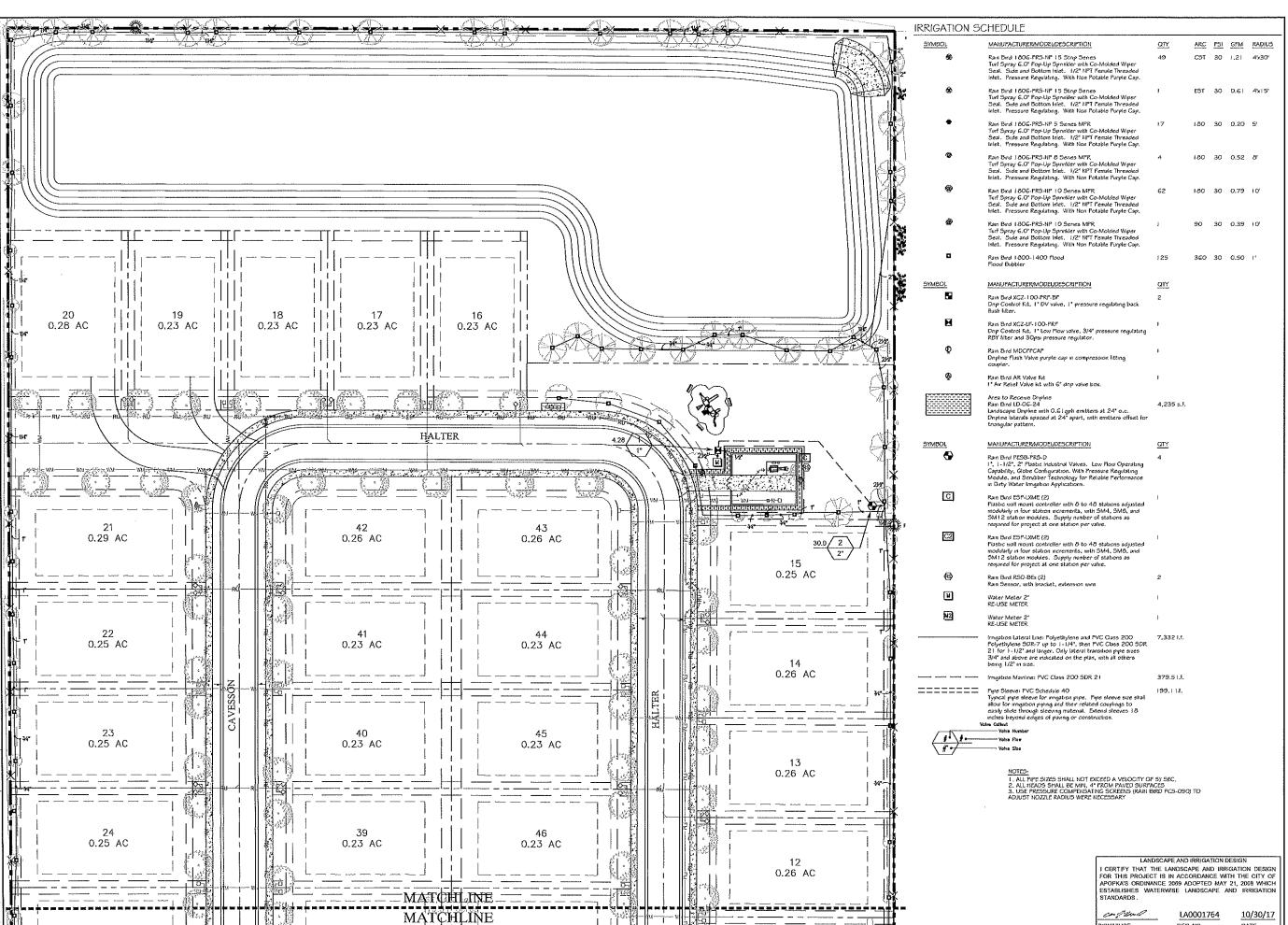
LANDSCAPE SITE PLAN & TREE MITIGATION

DRAWING NUMBER

DRAWING TITLE

LS-02

SHEET 41 OF 44





M Site Planning

4465 Gabriella Lane Winter Park, FL 32792 PH: (407) 484-3414 Fx: (407) 671-1604

PROJECT AND OWNER

BRIDLEWOOD SUBDIVISION

City of Apopka Florida

Applan Engineering, LLC 2221 Lee Road, Suite 17 Winter Park, FL 32789 PH: (407) 960-5856

CONSULTANTS

LANDSCAPE ARCHITECT

REG.#: 0001764

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DESIGNED BY	CJK
DRAYIN BY	CJK
CHECKED BY	CJK

(SSUED FOR:

01/18/18 Site Changes 02/14/18 City Comments 03/18/18 Permit Set 04/16/18 Owner Changes 04/23/18 Owner Changes 05/07/18 Owner Changes 05/21/18 City Comments

DRAWING SCALE



8CALE: 1"-50"-0"

DRAWING TITLE IRRIGATION SITE PLAN

DRAWING NUMBER

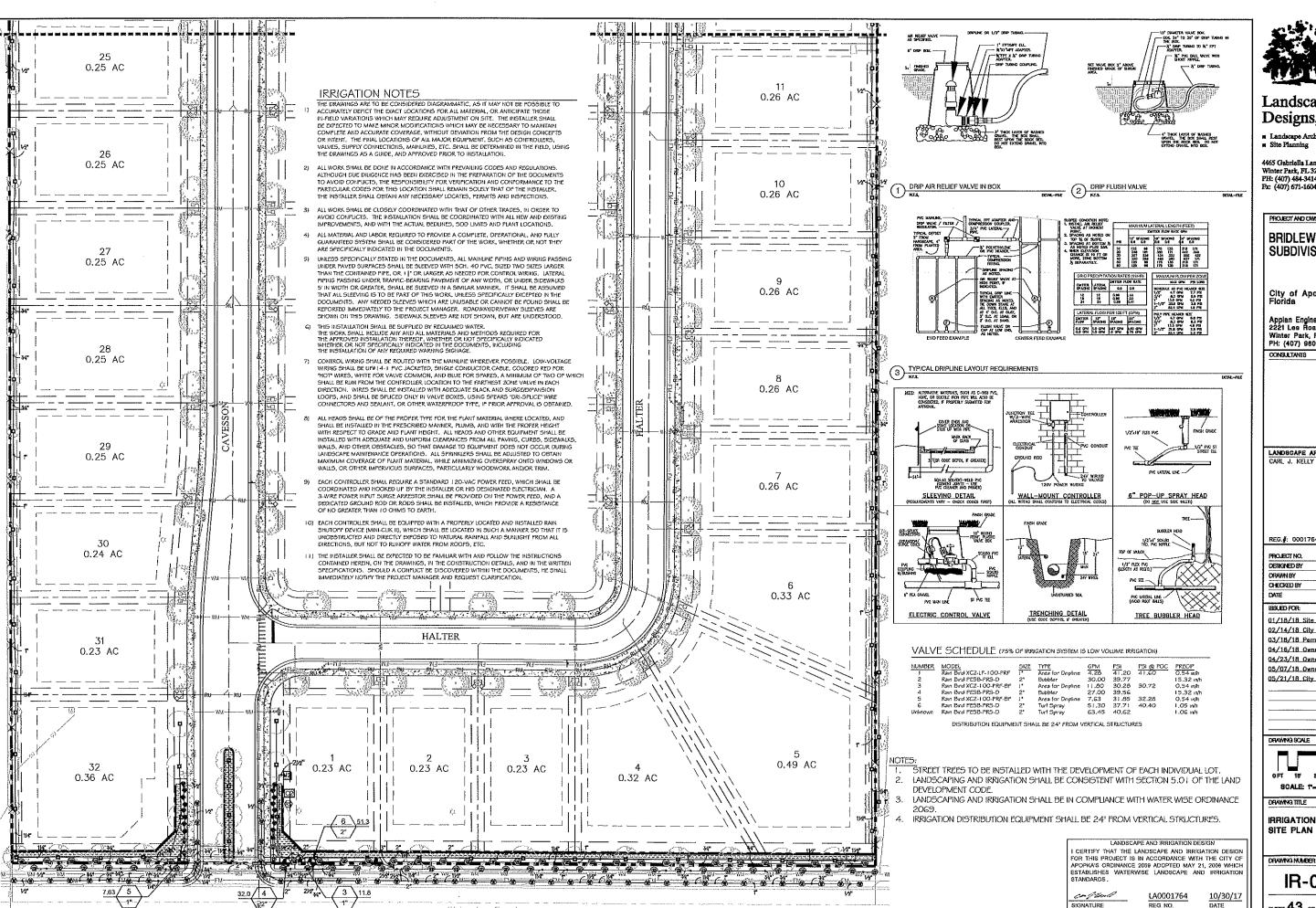
SIGNATURE

REG NO

DATE

IR-01

SHEET 42 OF 44





m Landscape Architectur m Site Planning

4465 Gabriella Lane Winter Park, FL 32792 PH: (407) 484-3414 Fx: (407) 671-1604

PROJECT AND OWNER

BRIDLEWOOD SUBDIVISION

City of Apopka Florida

Applan Engineering, LLC 2221 Lee Road, Suite 17 Winter Park, FL 32789 PH: (407) 980-5858

LANDSCAPE ASCHITECT CARL J. KELLY JR., RLA

REG.#: 0001764

APP05.01
CJK
CJK
CJK
10/30/17

ISSUED FOR:

01/18/18 Site Changes 02/14/18 City Comments 03/18/18 Permit Set 04/16/18 Owner Changes 04/23/18 Owner Changes 05/07/18 Owner Changes 05/21/18 City Comments

DRAWING SCALE



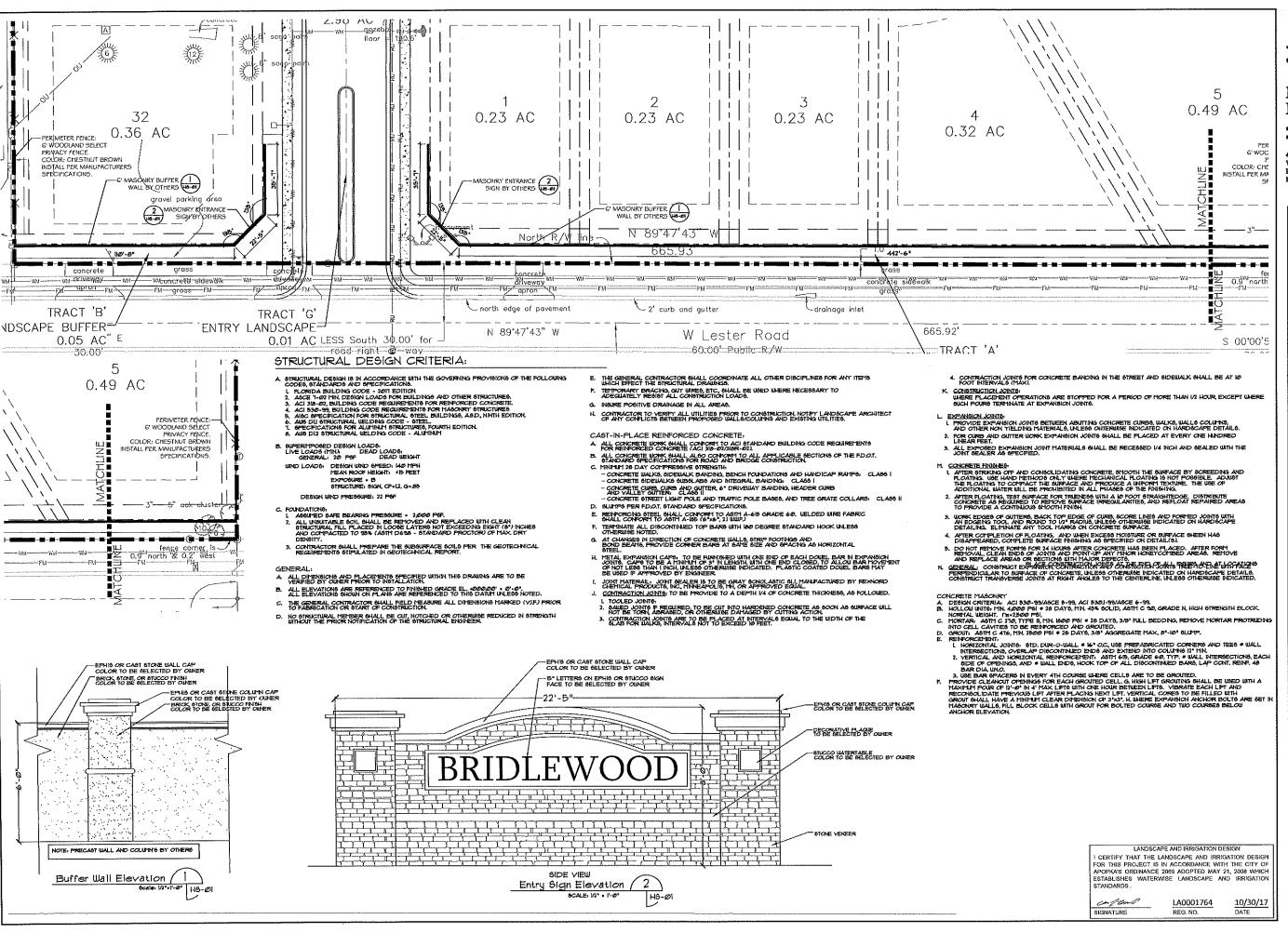
SCALE: 1"-30"-0"

IRRIGATION

DRAWING NUMBER

IR-02

SHEET 43 OF 44





■ Landscape Architecture ■ Site Planning

4465 Gabrielia Lane Winter Park, FL 32792 PH: (407) 484-3414 Fx: (407) 671-1604

PROJECT AND OWNER

BRIDLEWOOD SUBDIVISION

City of Apopka Fiorida

Applan Engineering, LLC 2221 Lee Hoad, Sulte 17 Winter Park, FL 32789 PH: (407) 960-5856

CONSULTANTS

LANDSCAPE ARCHITECT CARL J. KELLY JR., RLA

REG.#: 0001764

PROJECT NO.	APP05.01
DESIGNED BY	CJK
DRAWN BY	CJK
CHECKED BY	CJK
DATE	10/30/17

ISSUED FOR:

01/18/18 Site Changes 02/14/18 City Comments 03/18/18 Permit Set 04/16/18 Owner Changes 04/23/18 Owner Changes

05/07/18 Owner Changes 05/20/18 City Comments

DRAWING SCALE



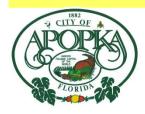
SCALE: 1"=20"-0"

HARDSCAPE SITE PLAN &

DETAILS
DRAWING NUMBER

HS-01

3 SHEET 44 OF 44



CITY OF APOPKA PLANNING COMMISSION

X PUBLIC HEARING

X SITE PLAN – Preliminary Dev. Plan

SPECIAL REPORTS

OTHER:

MEETING OF: August 14, 2018

FROM: Community Development

EXHIBITS: Vicinity Map

Aerial Map

Preliminary Development Plan

SUBJECT: PRELIMINARY DEVELOPMENT PLAN – CARRIAGE HILL PHASE II

SUBDIVISION

REQUEST: RECOMMEND APPROVAL OF THE PRELIMINARY DEVELOPMENT

PLAN FOR CARRIAGE HILL PHASE II SUBDIVISION

SUMMARY:

OWNER/APPLICANT: JTD Land at Rogers Rd, LLC

PROJECT ENGINEER: Dewberry Engineers, Inc. c/o Christopher Allen, P.E.

LOCATION: 1455 West Lester Road; West Lester Road

EXISTING USE: Vacant land

FUTURE LAND USE: Residential Low Suburban (Max 3.5 du/ac)

ZONING: R-1 (Single Family Residential) District

PROPOSED

DEVELOPMENT: Single-Family Residential Subdivision (15 Lots; min. 9,000 sq. ft. lot area,

75 ft. min. lot width)

PROPOSED DENSITY: 1.69 du/ac

TRACT SIZE: 10.31 +/- acres

DEVELOPABLE AREA: 8.89 +/- acres

DISTRIBUTION

Mayor NelsonFinance DirectorPublic Services DirectorCommissionersHR DirectorRecreation Director

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

G:\CommDev\PLANNING ZONING\SUBDIVISION PLANS\2018\Carriage Hill Phase 2\4 Planning Com Hearing

RELATIONSHIP TO ADJACENT PROPERTIES:

Direction	Future Land Use	Zoning	Present Use
North (City)	Residential Low Suburban	R-1AA	Vacant Land
East (City)	Residential Low Suburban	R-1AA	Oak Hill Reserve Subdivision
South (City)	Residential Low Suburban	R-1	Oak Hill Reserve Park and Open Space Tract
West (City)	Residential Low Suburban	R-1AA	Carriage Hill Phase I Subdivision

PROJECT SUMMARY: The Carriage Hill Phase II Subdivision – Preliminary Development Plan proposes the development of 15 single family residential lots. The minimum typical lot width is 75 feet with a minimum lot size of 9,000 square feet. Lots abutting the Oak Hill Reserve neighborhood are 11,996 sq. ft. to 21,046 sq. ft. The required minimum living area for a house in this subdivision is 1,500 square feet as set forth in Chapter 2 of the Land Development Code for single-family lots located within the R-1 zoning. The minimum setbacks applicable to this project are:

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

^{*}Front-entry garage must be setback 30 feet.

ACCESS: Ingress/egress access points for the development will be via full access onto Rogers Road as approved in Phase I of the Carriage Hill Subdivision.

TRANSPORTATION: Per Code, a transportation impact analysis (TIA) was not required for this development as it generates under 400 daily trips.

STORMWATER: The stormwater management system includes an on-site retention area and located on the southern portion of the project site. The stormwater pond design meets the City's Land Development Code requirements.

RECREATION: For the entire Carriage Hill Subdivision (Phase I), the applicant provided 0.46 acre/approximately 20,038 square feet of recreation space that includes a playground with the Phase I Final Development Plan. Phase II contains a total of 5.58 acres of open space including drainage, existing wetland, buffer and pond.

BUFFER(S)/LANDSCAPING: Trumpet trees and live oaks line the single family lots. The landscape plan meets the requirements of the Land Development Code.

SCHOOL CAPACITY REPORT: A school concurrency mitigation agreement has been executed and a copy of the letter from Orange County Public Schools (OCPS) has been supplied to Staff.

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

PUBLIC HEARING SCHEDULE:

August 14, 2018 – Planning Commission, 5:30 p.m. September 5, 2018 – City Council, 1:30 p.m.

RECOMMENDATION ACTION:

The **Development Review Committee** recommends approval of the Carriage Hill Phase II Subdivision – Preliminary Development Plan, subject to the findings of this staff report.

Recommended Motion: Recommend the approval of the Carriage Hill Phase II Subdivision – Preliminary Development Plan 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 or deny based on consistency with the 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.

PLANNING COMMISSION – AUGUST 14, 2018 CARRIAGE HILL PHASE II SUBDIVISION – PRELIMINARY DEVELOPMENT PLAN PAGE 4

Project Name: Carriage Hill Phase II Subdivision – Preliminary Development Plan

Property Owner: JTD Land at Rogers Rd. LLC

Applicant: Dewberry Engineers, Inc. c/o Christopher Allen, P.E.

Total Site Area: +/- 10.31 +/- acres

Parcel ID #s: 29-20-28-0000-00-005 and 29-20-28-0000-00-049

VICINITY MAP



AERIAL MAP



Drawing Index

Civil

C01 COVER SHEET
C02 EXISTING CONDITIONS
C03 SOILS MAP
C04 OVERALL SITE PLAN
C05 PRELIMINARY SITE PLAN
C06 PRELIMINARY GEOMETRY PLAN
C07 PRELIMINARY UTILITY PLAN
C08 PRELIMINARY SECTIONS

Landscape

L2.01 TREE REMOVAL PLAN
L2.10 LANDSCAPE PLAN
L3.00 NOTES, LEGEND AND DETAILS

LEGAL DESCRIPTION:

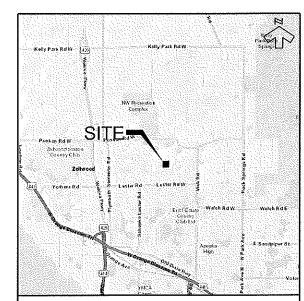
(PER SCHEDULE A OF THE TITLE COMMITMENT)
THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 29, TOWNSHIP 20 SOUTH, RANGE 28 EAST, PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA.

TOGETHER WITH AN EXCLUSIVE PERPETUAL EASEMENT AND RIGHT-OF-WAY FOR INGRESS, EGRESS AND UTILITIES, AS CREATED BY AND SET FORTH IN THAT CERTAIN EASEMENT AGREEMENT RECORDED IN OFFICIAL RECORDS BOOK 8391, PAGE 3713, OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA.

CARRIAGE HILL (PHASE 2)

Apopka, Florida Preliminary Development Plan

JUNE 2018 Parcel ID. Number 29-20-28-0000-00-005 29-20-28-0000-00-049



SITE LOCATION

THIS IS TO CERTIFY THAT THE ROADWAY CONSTRUCTION PLANS AND SPECIFICATIONS AS CONTAINED HEREIN WERE DESIGNED TO APPLICABLE STANDARDS AS SET FORTH IN THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS" AS PREPARED BY FLORIDA DEPARTMENT OF TRANSPORTATION,

Prepared for: JTD LAND AT ROGERS RD., LLC

210 South Hoagland Boulevard Kissimmee, Florida 34741 Contact: Craig Harris

Dewberry

Dewberry Engineers Inc.
800 HORTH MAGNOLIA AVE
SUITE 1000
ORLANDO, FL 32803
PHONE: 407.843.5120

CARRIAGE HILL
(PHASE 2)
PRELIMINARY
DEVELOPMENT PLAN
NOT FOR CONSTRUCTION

SEAL

KEY PLAN

1 7-20-18 K.JK REV PER CITY No. DATE 8Y Description

TITLE

COVER SHEET

PROJECT: CARR_50101346\CAD\CWINPSP

C01

APPLICANT / OWNER

JTD LAND AT ROGERS RD., LLC
A FLORIDA LIMITED LIABILITY CORPORATION
210 SOUTH HOAGLAND BOULEVARD
KISSIMMEE, FLORIDA 34741
CONTACT: CRAIG HARRIS
PHONE: 407-870-0066)

Civil Engineer / Planner

DEWBERRY 800 NORTH MAGNOLIA AVENUE, SUITE 1000 ORLANDO, FLORIDA 32803 CONTACT: CHRISTOPHER J. ALLEN, P.E. PHONE: 407-843-5120

Surveyor

DEWBERRY 131 WEST KALEY STREET ORLANDO, FLORIDA 32806 CONTACT: BILL DONLEY PHONE: 321-354-9834

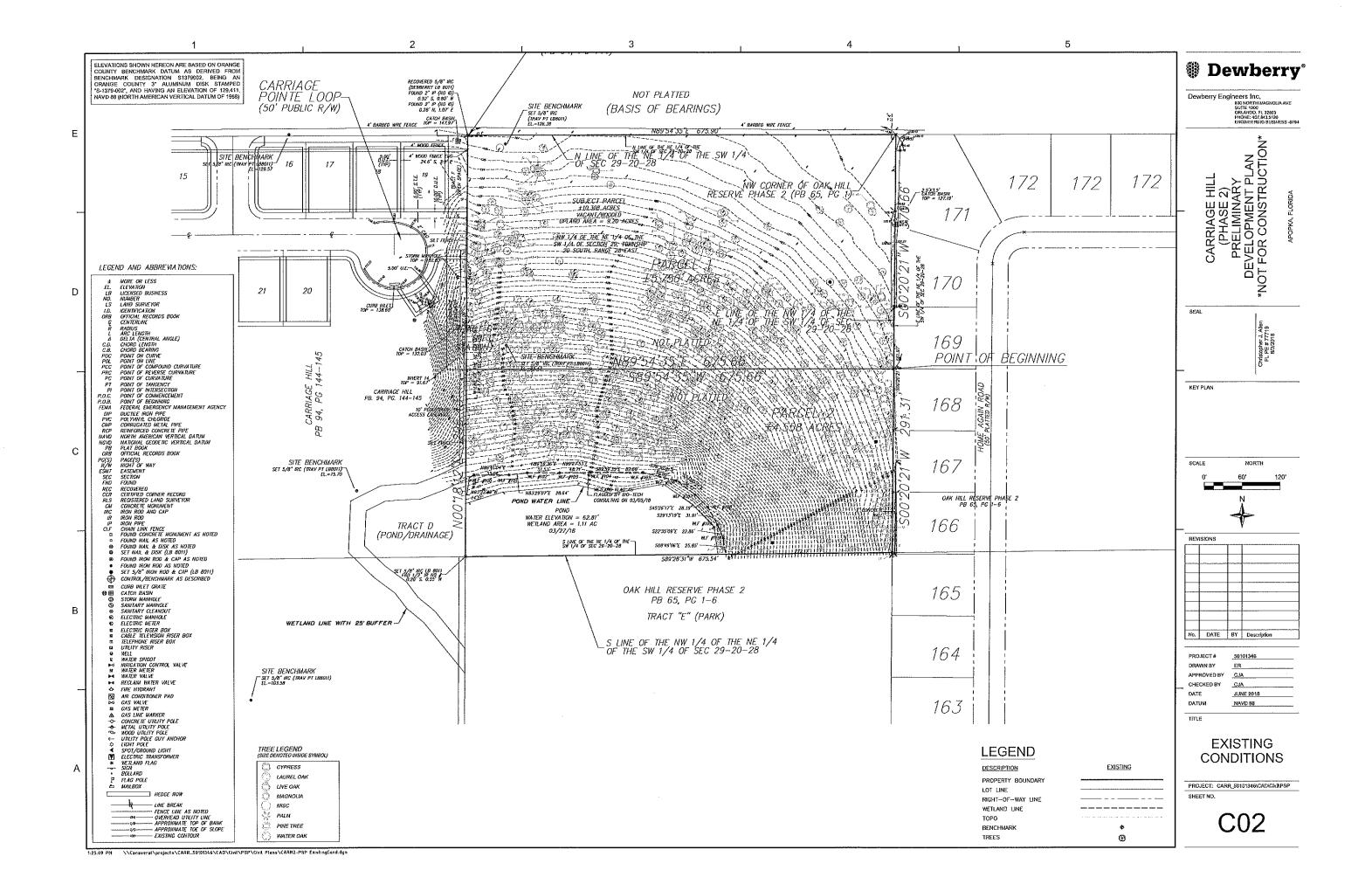
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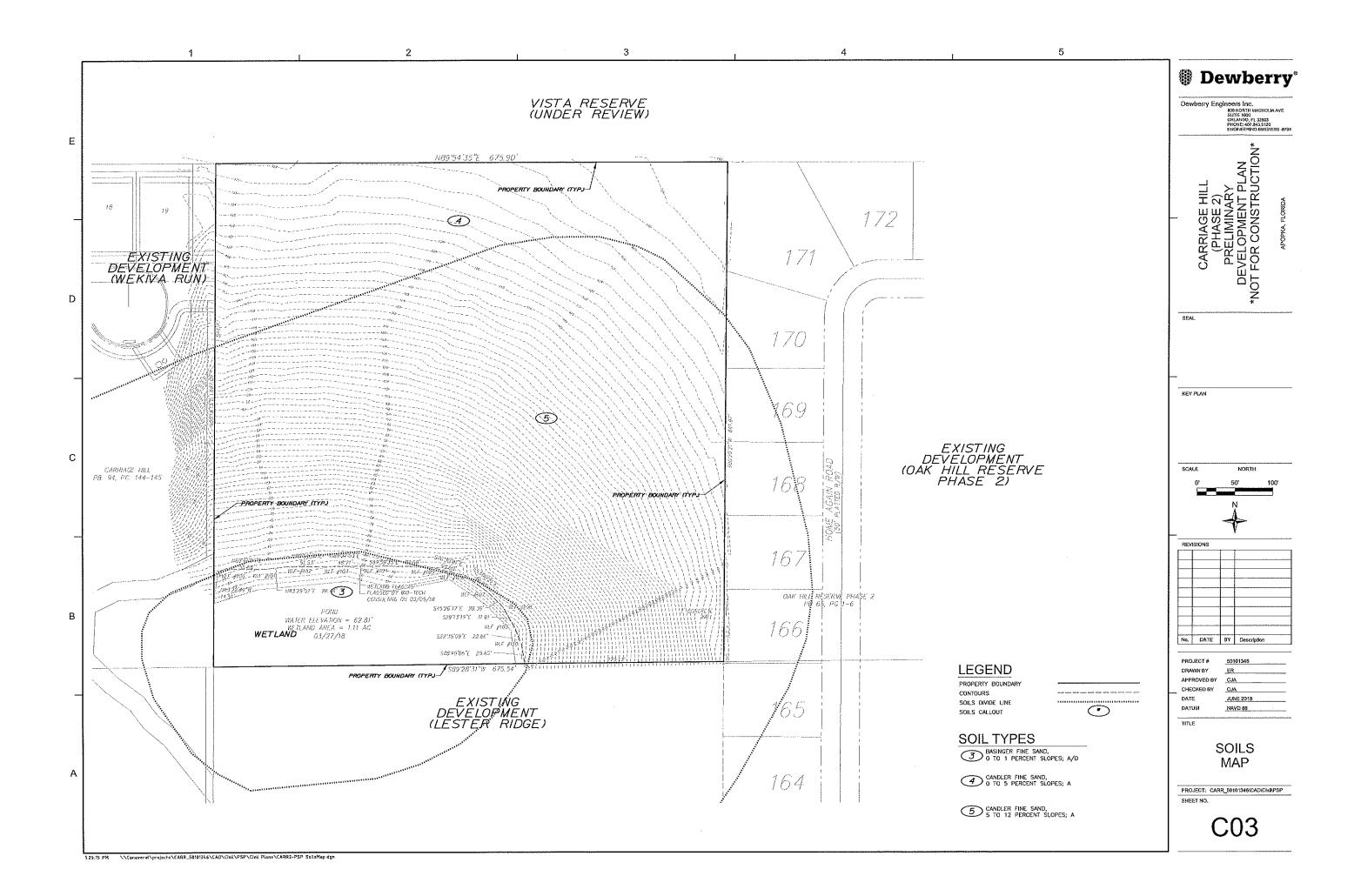
UNIVERSAL ENGINEERING SERVICES, INC. 3532 MAGGIE BOULEVARD ORLANDO, FLORIDA 32811 PHONE: 407-423-0504 CONTACT: TIMOTHY D. TRIPLETT

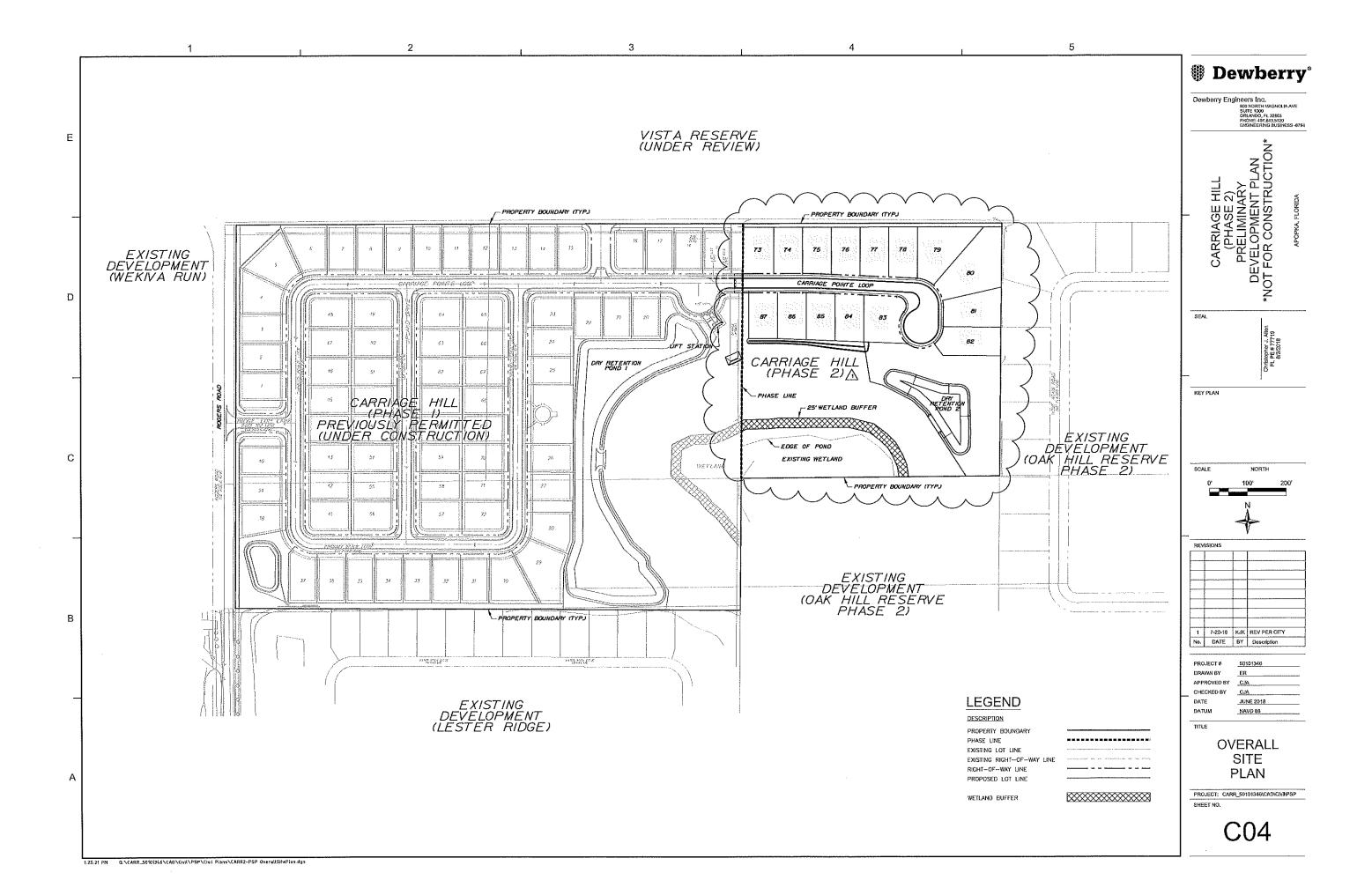
Environmental

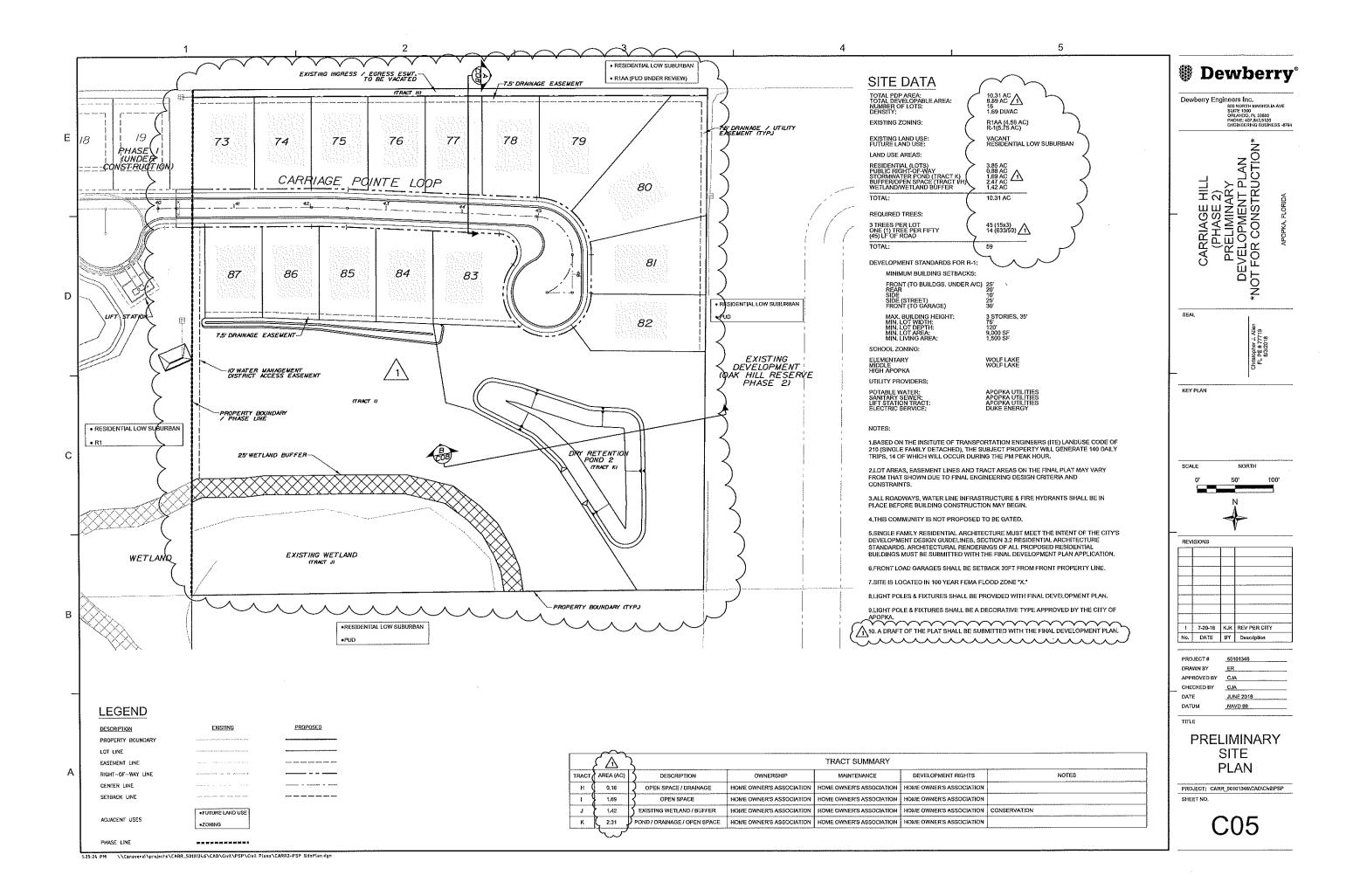
DEWBERRY 800 NORTH MAGNOLIA AVENUE, SUITE 1000 ORLANDO, FLORIDA 32803 CONTACT: NICOLE GOUGH PHONE: 407-843-5120

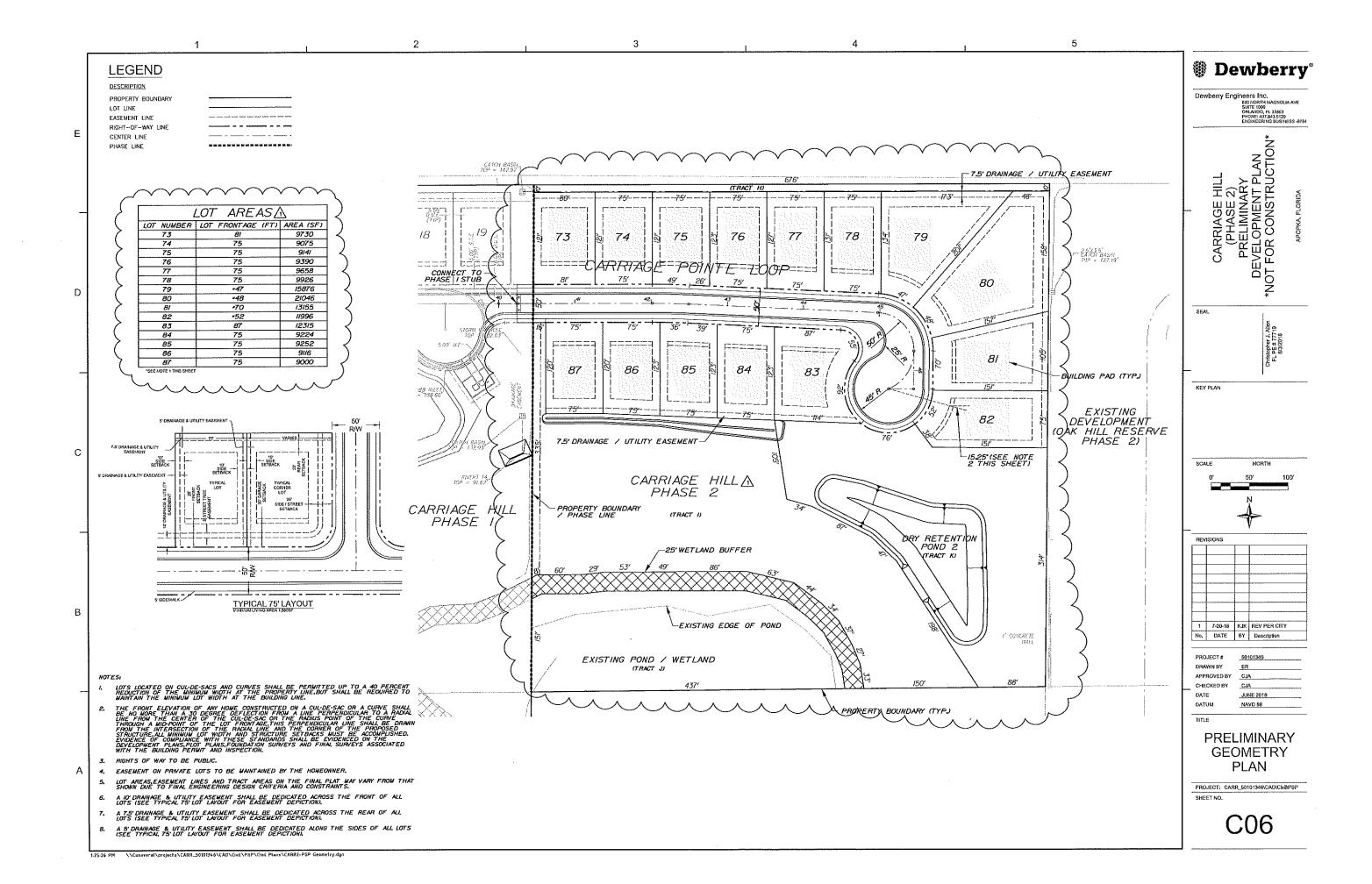


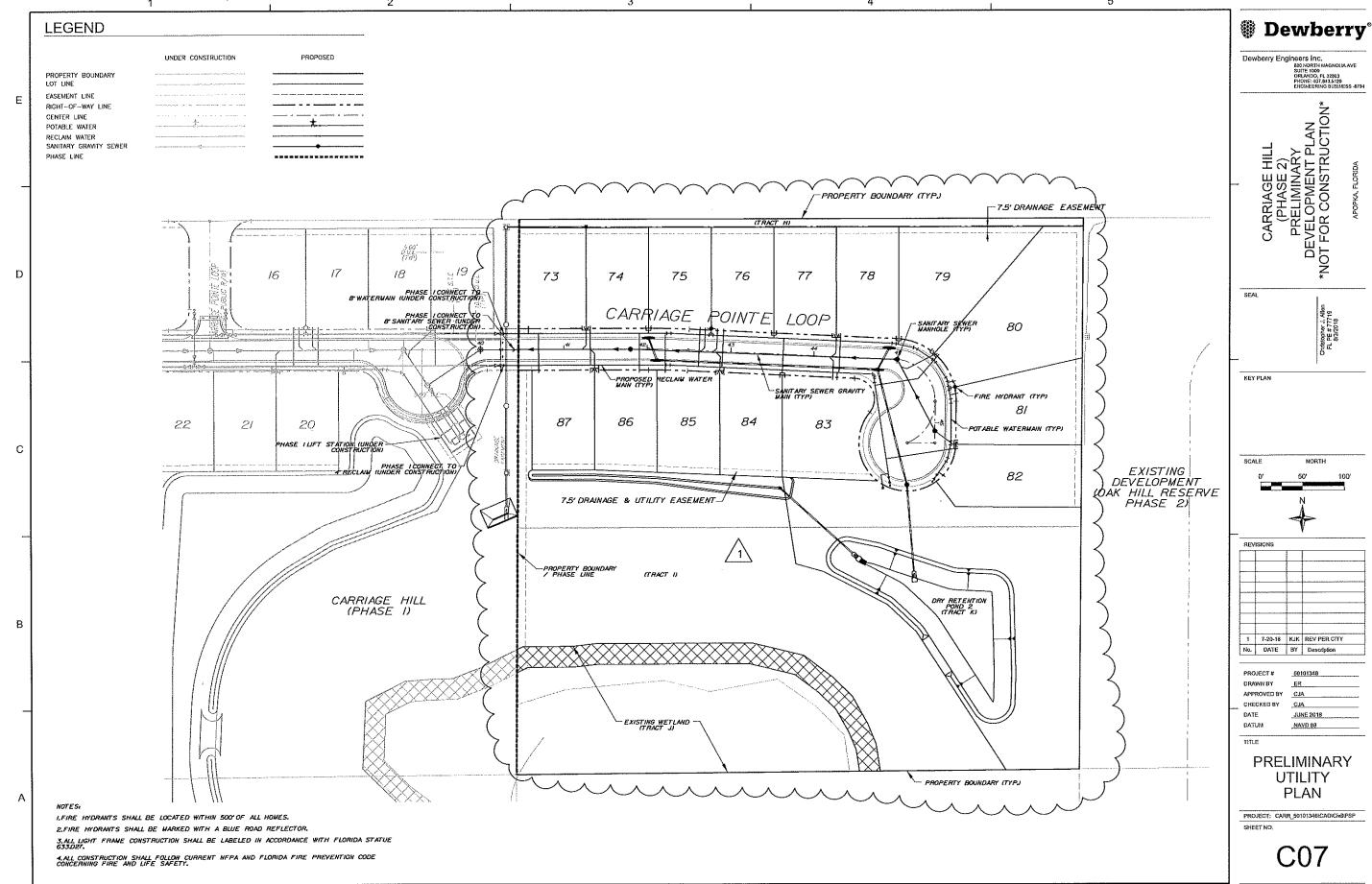


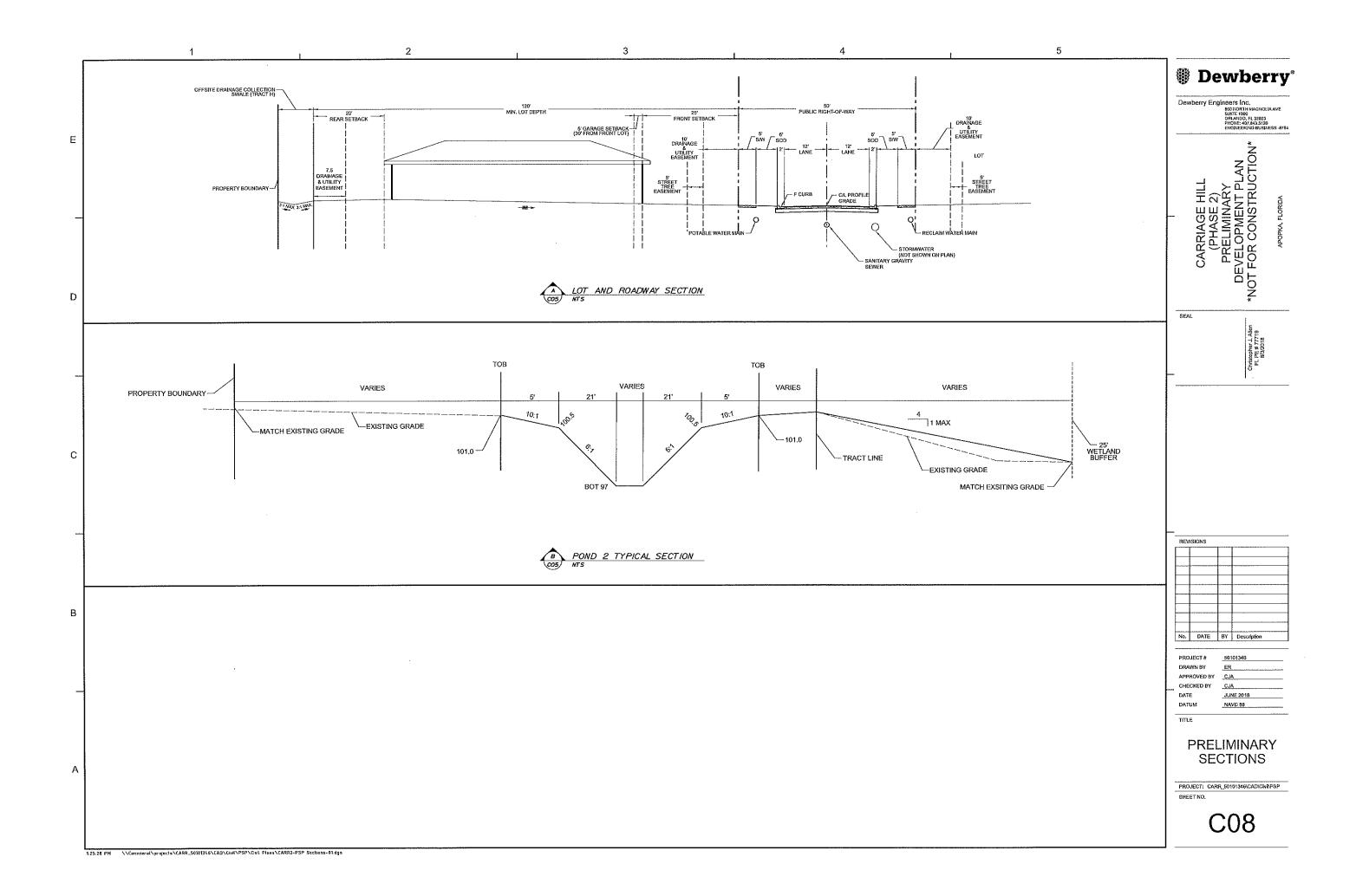


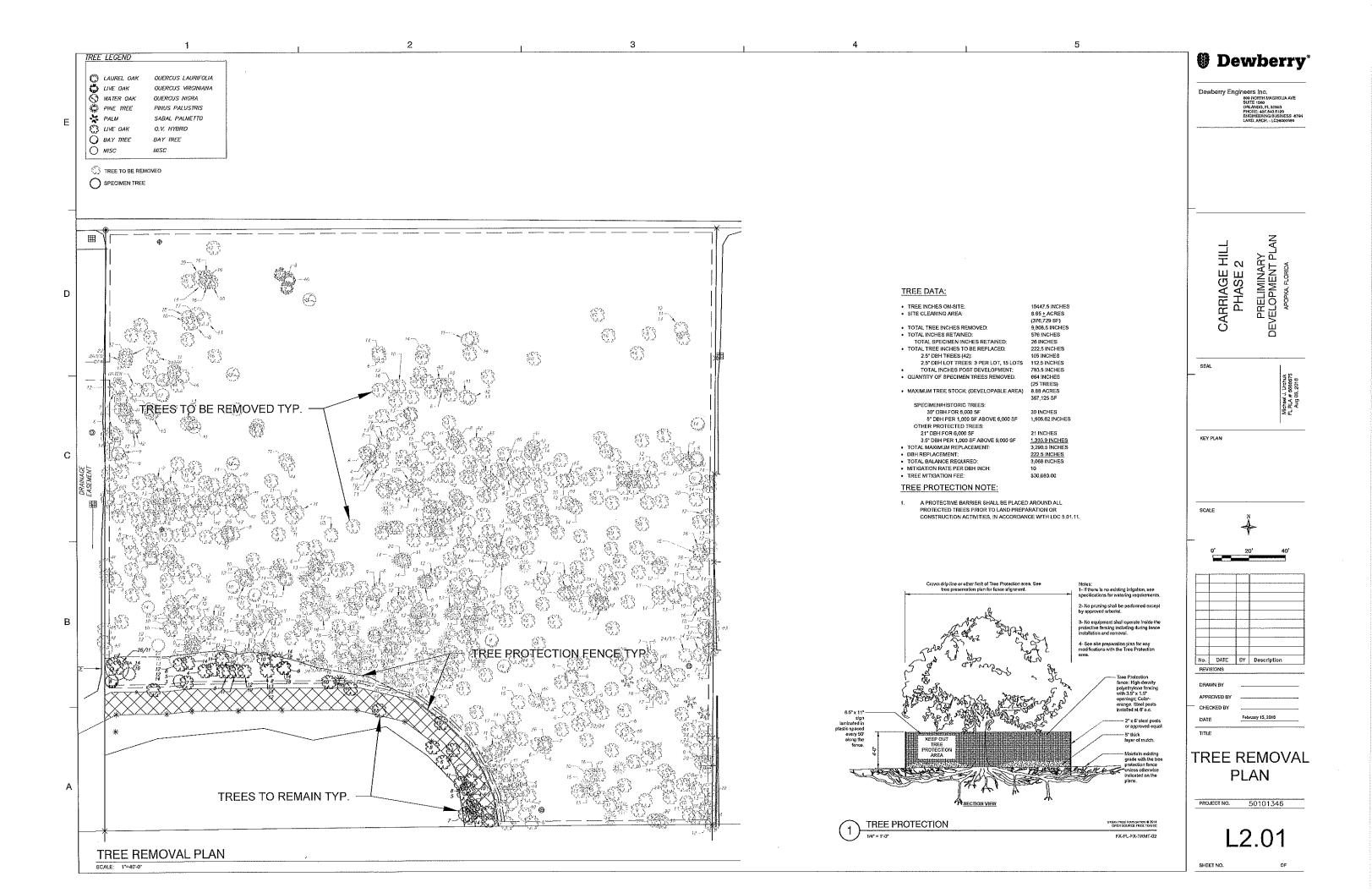


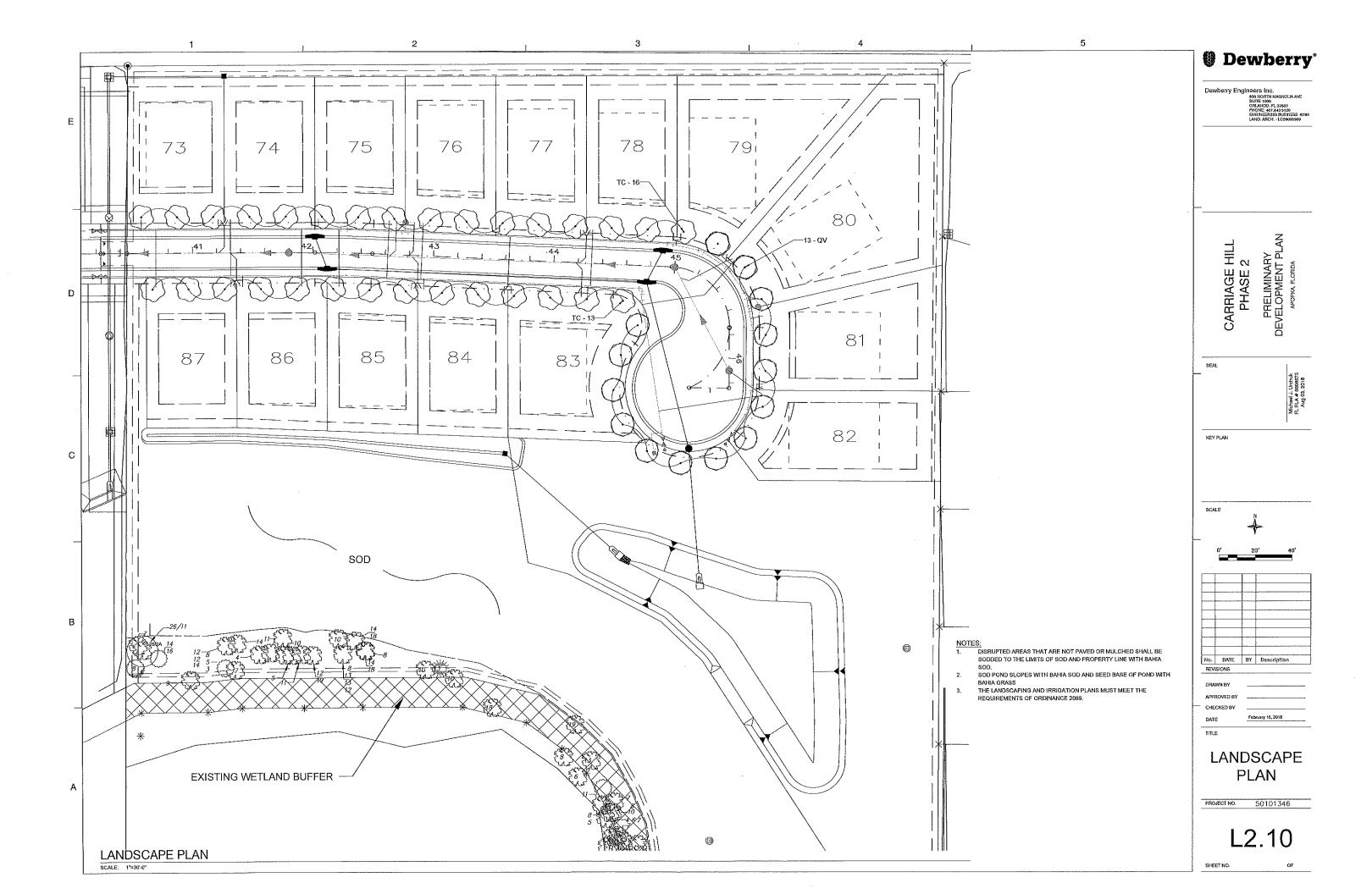


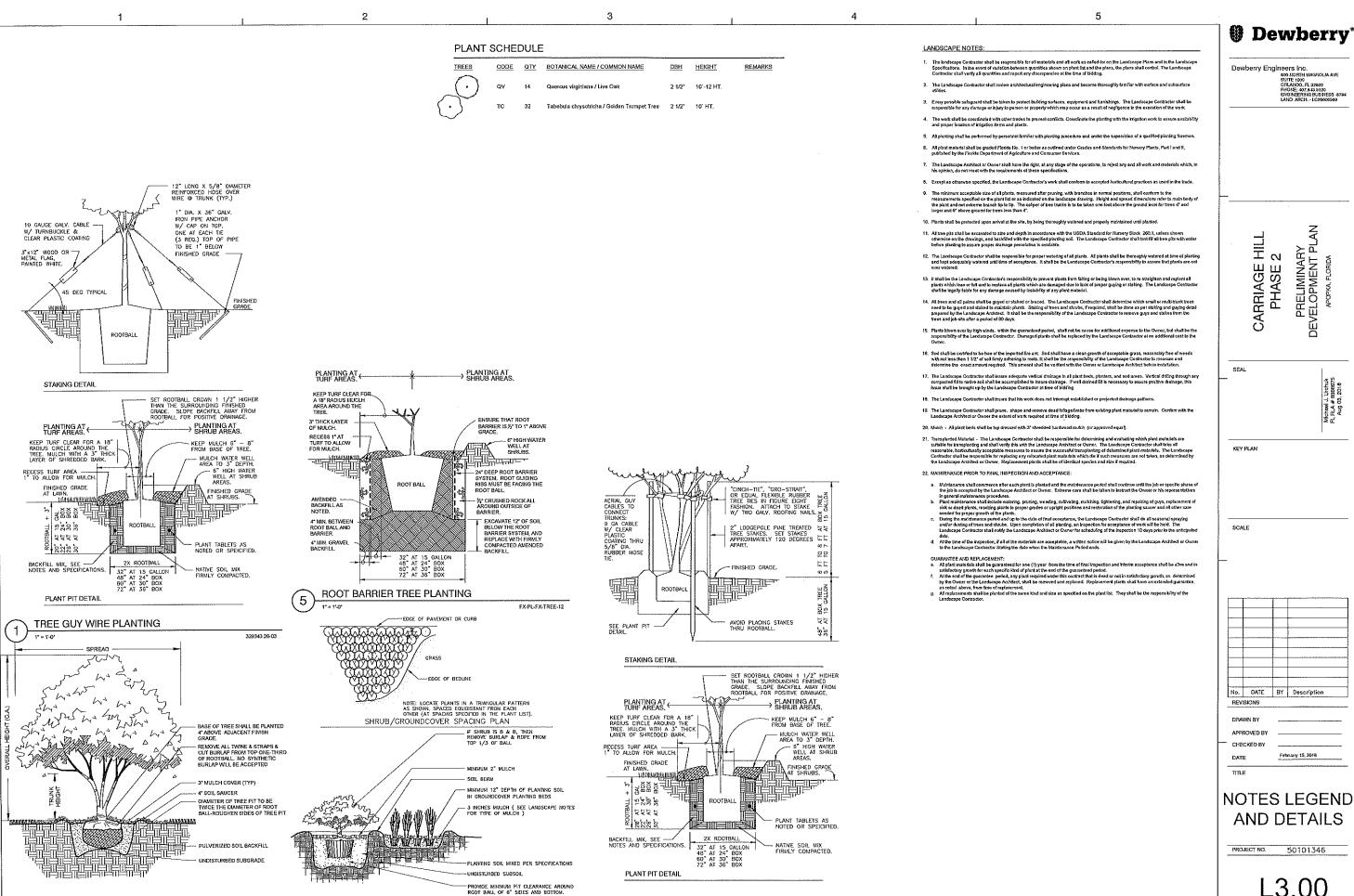












TREE PLANTING MULTI-STAKE

329343.23-03

4

329333.13~04

SHRUB AND GROUNDCOVER PLANTING

(3)

329343.33-01

D

MULTI-STEM TREE PLANTING

(2)

N.T.S.

Dewberry*

AND DETAILS

SHEET NO.