

PHONE: 352 360-6727

FAX: 352 360-6652

### 506 WEST BERCKMAN STREET FRUITLAND PARK, FL 34731

Board Members:Others:Al Goldberg, ChairmanDwayne Williams, Community DevelopmentDaniel Dicus, Vice ChairDirector

Carlisle Burch Sharon Williams, Assistant to the Director

Fred Collins
Walter Birriel
Emily Church, Office Assistant

# AGENDA PLANNING & ZONING BOARD FEBRUARY 17, 2022 6:00PM

#### I. INVOCATION AND PLEDGE OF ALLEGIANCE

- II. ROLL CALL
- **III.** MINUTES FROM PREVIOUS MEETING: Approve regular Planning and Zoning Board meeting minutes from December 16, 2021.
- IV. OLD BUSINESS: None
- V. <u>NEW BUSINESS:</u>

### A. 7-Eleven Site Plan & Minor Lot Split (Alternate Key: 2748770 & 1282896)

Major Site Plan and minor lot split applications were submitted by William "Bill" Lloyd of 441 Lake Ella, LLC on behalf of Fruitland Lake Ella, LLC. Parcel is currently zoned General Commercial (C-2) and is located west of US Highway 27/441 & Eagle Nest Road. Subject property is part of a larger tract of land (±5.49 acres). A lot split will be processed simultaneously with the site plan as only a portion of the property will be purchased for development. Due to changes in the original site plan submission (previously approved with conditions; Resolution 2021-045), a new site plan was necessary. The **new** site plan submission includes: (1) drainage changes, (2) retention pond changes, (3) changes to property boundaries sold for development, as well as (4) ingress/egress changes. The proposed plan is to construct a 4,650 SF convenience store (including gas pumps) with associated 980 SF car wash. Permits for FDOT traffic signalization and Lake Ella extension permit, permit for right turn lane from driveway (notice of intent) and drainage permit.

### VI. <u>ADJOURNMENT:</u>

### **BOARD MEMBERS' COMMENTS**

#### **PUBLIC COMMENTS:**

This section is reserved for members of the public to bring up matters of concern or opportunities for praise. Note: Pursuant to F.S. 286.0114 and the City of Fruitland Park's Public Participation Policy adopted by Resolution 2013-023, members of the public shall be given a reasonable opportunity to be heard on propositions before the Planning and Zoning Board. Pursuant to Resolution 2013-023, public comments are limited to three minutes.

# **ADJOURNMENT:**



PHONE: 352 360-6727

FAX: 352 360-6652

# 506 WEST BERCKMAN STREET FRUITLAND PARK, FL 34731

**Board Members:** Others:

Al Goldberg, Chairman
Daniel Dicus, Vice Chair
Daniel Dicus, Vice Chair
Dwayne Williams, CDD
Michael Rank, LPG

Carlisle Burch
Fred Collins

Anita Garcia-Carver, City Attorney
Sharon Williams, Assistant to the Director

Walter Birriel Emily Church, Office Assistant

# MEETING NOTES PLANNING & ZONING BOARD DECEMBER 16, 2021 6:00PM

- I. <u>INVOCATION AND PLEDGE OF ALLEGIANCE</u>: Meeting was called to order at 6:03 p.m. Assistant to the Director, Sharon Williams, led the invocation and pledge of allegiance.
- II. ROLL CALL: All members were present.
- III. MINUTES FROM PREVIOUS MEETING: Approved regular Planning and Zoning Board meeting minutes from October 21, 2021. Motion made by Board Member Dicus and Seconded by Board Member Collins to approve October's meeting minutes. Approved 5-0.
- IV. **OLD BUSINESS:** None
- V. <u>NEW BUSINESS:</u>

### A. Review of Amended Land Development Regulations (LDRs)

Michael Rankin provided an overview of the thirteen-month long project that has been moving forward with purpose since June/July. Standard redline process of Fruitland Park's LDRs with proposals and revisions based on input from elected officials, the City Manager, and the City Attorney was presented.

City Attorney Anita Garcia-Carver stated the P&Z board could make motion to find that the LDRs, as proposed, were consistent with the comprehensive plan of the City of Fruitland Park and recommend approval to move forward to City Commission.

Motion made by Board Member Collins and Seconded by Board Member Birriel to approve the LDRs as presented. Approved 5-0.

- B. Other Remaining Topics of Discussion None discussed.
- VI. ADJOURNMENT: The meeting was adjourned at 6:10 PM

### **BOARD MEMBERS' COMMENTS**

#### **PUBLIC COMMENTS:**

This section is reserved for members of the public to bring up matters of concern or opportunities for praise. Note: Pursuant to F.S. 286.0114 and the City of Fruitland Park's Public Participation Policy adopted by Resolution 2013-023, members of the public shall be given a reasonable opportunity to be heard on propositions before the Planning and Zoning Board. Pursuant to Resolution 2013-023, public comments are limited to three minutes.

**ADJOURNMENT:** 6:10 PM



# City of Fruitland Park, Florida

Community Development Department

Sity of Gruilland Park 506 W. Berckman St., Fruitland Park, Florida 34731 Tel: (352) 360-6727 Fax: (352) 360-6652 www.fruitlandpark.org

	Sta Use Only	
Case No.:		
Fee Paid:		
Receipt No.:		

		_	**************************************	
	Develop	ment Application		
<b>Contact Information:</b>				
Owner Name: Fruitland La	ake Ella LLC			
Address: 13362 SW 128 Str	eet, Miami, FL 33186			
Phone: 305-255-3333	Email:_			
Applicant Name: William Llo	oyd, 441 Lake Ella LLC S, Ste 400, St. Petersburg 33701			
Phone: 727-895-2150	Email:			
Engineer Name: Jeremy An				
	Drive Suite 100, Orlando, FL 328	04	· · · · · · · · · · · · · · · · · · ·	
Phone: 407-951-5915		janderson@commonoakenginee	ring.com	
<del></del>				
Property and Project Inform	<u>nation:</u>			
PROJECT NAME*: 7-Elever				
		presentative of the project for ease of refer	ence.	
	the intersection of US Hwy 441 a	and Eagles Nest Road		
Parcel Number(s): 33-18-24	⊢0001-000-00400	Section:	Township: Range	
Area of Property: 2.62 Nearest Intersection: US Hwy 441 & Eagles Nest Road				
Existing Zoning: C-2 Existing Future Land Use Designation: General Commercial				
Proposed Zoning: C-2		Proposed Future Land Use Desi	gnation: Mixed Community	
The property is presently us	sed for: Vacant			
The property is proposed to	be used for: 4,650 sf 7-Eleven	with 7 MPDs and 980 car wash		
Do you currently have City	Utilities? Yes			
Application Type:				
Annexation	Comp Plan Amendment	Rezoning	Planned Development	
☐ Variance	Special Exception Use	Conditional Use Pe	rmit 🔲 Final Plat	
Minor Lot Split	Preliminary Plan	Construction Plan	ROW/Plat Vacate	
X Site Plan	Minor Site Plan	Replat of Subdivision	on	
Please describe your reques		for major site plan review due to water pond and remove the unde	o the expansion of the property in order to erground stormwater system	
Required Data, Documents	s. Forms & Fees	- 1000		
Attached to this application	is a list of <b>REQUIRED</b> data, doc		cation type as well as the adopted fee	
			include the supporting data will deem	
your application package <u>in</u>	NCOMPLETE and will not be pro	ocessed for review.		
Printed Name: William Lle	<u>oyd</u>			
1 //				
Signature: ///		Dat	re: 1/3/22	
If application is being submitted owner to submit application.	ed by any person other than the leg	al owner(s) of the property, the appli	icant must have written authorization from the	

# **Development Application Checklist** The Following are Required for ALL Development Applications: [X] Legal Description (Word file reg'd) X Current Deed X Aerial Photo X Property Appraiser Information X Electronic Copy of Application X Location Map Pre-application conferences are strongly encouraged. Submit TWO CDs with ALL documents in pdf; those that are generated as CAD files should be submitted in pdf and dwg formats. . Legal Descriptions should also come with a MS Word file of the legal description. Most maps are accessible through www.lakecountyfl.gov/maps/. Note: All maps are required to depict adjacent properties at a minimum. Failure to provide adequate maps may delay the application process. Other Required Analyses and Maps: Small Scale Comprehensive Plan Amendment Applications: Justification for Amendment Environmental Constraints Map Requested FLU Map **Large Scale Comprehensive Plan Amendment Applications:** Maps: Environmental Constraints Soils Requested FLUM Designation Requested Zoning Map Designation Traffic Impact Analysis Consistency with the Comp Plan Florida Master Site File sign-off or Archaeological Survey **Rezoning Applications:** Requested Zoning Map Justification for Rezoning Planned Development Applications: Maps/Plans: Conceptual Plan as Described in LDRs Chapter 154, **Environmental Constraints** Section 154.030,10,G Analyses: Environmental Assessment Traffic Impact Analysis Preliminary Concurrency Analysis **Variance Applications:** Justification for Variance **Special Exception Use Applications:** Justification for Special Exception Use Site Sketch List of Special Requirements as Described in LDRs, Chapter 155 **Conditional Use Permit Applications:** Proposed List of Conditions and Safeguards Site Plan as Described in LDRs, Chapter 155 Written Statement as Described in LDRs, Chapter 155 **Subdivision Applications:** As Described in LDRs, Chapter 157 (Preliminary Plan, Improvement Plan and Final Plat) Minor Subdivision Applications: As Described in LDRs, Chapter 157 Site Plan Applications: X As Described in LDRs, Chapter 160



### City of Fruitland Park, Florida **Community Development Department**

City of Smilland Front 506 W. Berckman St., Fruitland Park, Florida 34731 Tel: (352) 360-6727 Fax: (352) 360-6652 www.fruitlandpark.org

	Sta Use Only
Case No.:	
Fee Paid:	
Receipt No.:	<u></u>

		L		
	Develor	oment Application		
Contact Information:	•			
Owner Name: Fruitland	Lake Ella, LLC			
Address: 13362 SW 128	Street, Miami, FL 33186			
Phone: 305-255-3333	Email:			
Applicant Name: William	Lloyd of 441 Lake Ella, LLC			
Address: 147 Second Av	e S Suite 400, St Petersburg 33	3701	-	
Phone: 727-895-2150	Email:	wcl@rkmdev.com	·	
Engineer Name: Jeremy	Anderson			
	r Drive, Suite 100, Orlando,FL			
Phone: 407-951-5915	Email:	janderson@commonoakengii	neering.com	
Property and Project Info	mation:			
*A project name is required for a		presentative of the project for ease of refe	erence.	
	f intersection of US HWY 441 a	• •		
Parcel Number(s): 33-18-2	24-0001-000-00400	Section:	Township: Ra	ange
Area of Property: 2.62 a	cres	Nearest Intersection: US Hwy	441 & Eagles Nest Road	
Existing Zoning: C-2		Existing Future Land Use Desig	nation: General Commerc	ial
Proposed Zoning: C-2		Proposed Future Land Use Des	ignation: Mixed Communi	ty
The property is presently	used for: Vacant			<u></u>
The property is proposed	to be used for: 4,650 sf 7-Eleve	en with 7 MPDs and 980 sf car	wash	
Do you currently have Cit	y Utilities? Yes			
Application Type:				
Annexation	Comp Plan Amendment	Rezoning	Planned De	evelopment
☐ Variance	Special Exception Use	Conditional Use P	ermit Final Plat	
Minor Lot Split	Preliminary Plan	Construction Plan	ROW/Plat V	/acate
Site Plan	Minor Site Plan	Replat of Subdivis	ion	
Please describe your requ	est in detail:	**	-	
Dominal Data Dames	As Farms 9 Face			
Required Data, Document Attached to this application		cuments and forms for each appl	ication type as well as the ac	dopted fee
schedule. These items mu	st be included when submitting	the application package. Failure t		
your application package	INCOMPLETE and will not be pro	ocessed for review.		
Printed Name: William L	loyd			
, ,			1121 -	
Signature: W		Da	ate: 1/3/22	
If application is being submit owner to submit application		gal owner(s) of the property, the app	licant must have written autho	rization from the

# **Development Application Checklist** The Following are Required for ALL Development Applications: Legal Description (Word file req'd) Current Deed Aerial Photo Property Appraiser Information ☐ Electronic Copy of Application Location Map Pre-application conferences are strongly encouraged. Submit TWO CDs with ALL documents in pdf; those that are generated as CAD files should be submitted in pdf and dwg formats. Legal Descriptions should also come with a MS Word file of the legal description. Most maps are accessible through www.lakecountyfl.gov/maps/. Note: All maps are required to depict adjacent properties at a minimum. Failure to provide adequate maps may delay the application process. Other Required Analyses and Maps: **Small Scale Comprehensive Plan Amendment Applications:** Justification for Amendment Environmental Constraints Map Requested FLU Map Large Scale Comprehensive Plan Amendment Applications: Maps: ☐ Environmental Constraints ☐ Soils ☐ Requested FLUM Designation ☐ Requested Zoning Map Designation Analyses: Environmental Assessment Utility Availability Analysis Urban Sprawl Analysis School Impact Analysis Traffic Impact Analysis Consistency with the Comp Plan Florida Master Site File sign-off or Archaeological Survey Rezoning Applications: Requested Zoning Map Justification for Rezoning Planned Development Applications: Maps/Plans: Conceptual Plan as Described in LDRs Chapter 154, **Environmental Constraints** Section 154.030,10,G Traffic Impact Analysis Preliminary Concurrency Analysis **Variance Applications:** ☐ Justification for Variance Special Exception Use Applications: Justification for Special Exception Use Site Sketch List of Special Requirements as Described in LDRs, Chapter 155 **Conditional Use Permit Applications:** Proposed List of Conditions and Safeguards Site Plan as Described in LDRs, Chapter 155 Written Statement as Described in LDRs, Chapter 155 **Subdivision Applications:** As Described in LDRs, Chapter 157 (Preliminary Plan, Improvement Plan and Final Plat) Minor Subdivision Applications: As Described in LDRs, Chapter 157 **Site Plan Applications:** As Described in LDRs, Chapter 160

# OWNER'S AFFIDAVIT

# STATE OF FLORIDA COUNTY OF LAKE

Before me the undersigned authority, po	ersonally appeared Levy A Won	ng as managing member of	····
Fruitland Lake Ella, LLC	, who being by me first duly	sworn on oath deposes and	says
That he/she is the fee-simple owner of t	he property legally described or	n attached page of this applic	catio
That he/she desires approval	to a	allow Major Site Plan ar	nd
Minor Lot Split			
That he/she has appointed William	n Lloyd,  441 Lake Ella. LLC	to act as agent o	n hi
behalf to accomplish the above. The	owner is required to complet	te the Applicant's Affidavi	it of
application if no agent is appointed to a	ct on his/her behalf.  Affiant (Owner s	Signature)	
State of Florida			
County of <u>Miam</u> On LE  The Foregoing instrument was acknowle	edged before me this	day of JANUARI	2
PLORIUSE CICANSE	who is personally kno as identification and who	wn to me or has produced did or did not take an oath (Notary Seal)	
	B		
Notary Public - State of Florida Commission No 443325 My Commission Expires 8/7/	Signature A/a/	nider Bancon	·j*
Zapas	Printed Name		

ALEXANDER BARCENAS
Notary Public, State of Florida
Commission# HH 33251
My comm. expires Aug. 17, 2024

# APPLICANT AFFIDAVIT

STATE OF FLORIDA

COUNTY OF LAKE

	Before me the undersigned authority, personally appeared William Lloyd of 441 Lake Ella, LLC
	, who being by me first duly sworn on oath deposes and says:
1)	That he/she affirms and certifies that he/she understandings and will comply with all ordinances, regulations, and provisions of the City of Fruitland Park, Florida, and that all statements and diagrams submitted herewith are true and accurate to the best of his/her knowledge and belief, and further that this application and attachments shall become part of the Official Records of the City of Fruitland Park, Florida, and are not returnable.
2)	That the submittal requirements for the application have been completed and attached hereto as part of that application.
3)	That he/she desires Jeremy Anderson, Morgan Hampton and Carol McCorkle of Common Oak Engineering to allow to act as the agent for the major site plan and minor lot split
	1 100
	My Made, Hember
	Affiant (Applicant's Signature)
	State of Florida County of Rnellas
	The Foregoing instrument was acknowledged before me this 3rd day of January, 20 22, by Who is personally known to me or has produced
	as identification and who did or did not take an oath
	ANGELAL THOMPSON Commission # GG 294010 Expires August 21, 2022 Bonded Thru Budget Notary Services
	Notary Public - State of Florida
	Commission No Signature
	My Commission Expires
	Printed Name

# PROPERTY RECORD CARD

#### **General Information**

Name:	FRUITLAND LAKE ELLA LLC	Alternate Key:	2748770			
Mailing Address:	13362 SW 128TH ST MIAMI, FL 33186	Parcel Number: 0	33-18-24-0001- 000-00400			
	<u>Update Mailing Address</u>	Millage Group and City:	000F (FRUITLAND PARK)			
		2020 Total Certified Millage Rate:	17.6785			
		Trash/Recycling/Water/Info:	My Public Services Map 0			
Property Location:	US HWY 27/441 FRUITLAND PARK FL 34731	Property Name:	 Submit Property Name 1			
	Update Property Location	School Information:	School Locator & Bus Stop Map (1) School Boundary Maps (1)			
Property Description:	THAT PART OF NW 1/4 OF NE 1/4 OF NE 1/4 LYING W OF HWY ORB 2405 PG 24 ORB 3578 PG 2451					

NOTE: This property description is a condensed/abbreviated version of the original description as recorded on deeds or other legal instruments in the public records of the Lake County Clerk of Court. It may not include the Public Land Survey System's Section, Township, Range information or the county in which the property is located. It is intended to represent the land boundary only and does not include easements or other interests of record. This description should not be used for purposes of conveying property title. The Property Appraiser assumes no responsibility for the consequences of inappropriate uses or interpretations of the property description.

#### **Land Data**

Line	Land Use	Frontage	Depth	Notes	No. Units	Туре	Class Value	Land Value
1	TIMBER S I 70 (5400)	0	0	MGMT	5.49	AC	\$1,922.00	\$71,370.00
Click here for Zoning Info					FEMA F	lood	<u>Map</u>	

# **Miscellaneous Improvements**

There is no improvement information to display.

# **Sales History**

**NOTE:** This section is not intended to be a complete chain of title. Additional official book/page numbers may be listed in the property description above and/or recorded and indexed with the Clerk of Court. Follow this link to search all documents by owner's name.

Book/Page	Sale Date	Instrument	Qualified/Unqualified	Vacant/Improved	Sale Price				
3578 / 2451	78 / 2451 1/30/2008 Judicial		Multi-Parcel	Vacant	\$100.00				
2405 / 24	9/3/2003	Warranty Deed	Qualified	Vacant	\$375,000.00				
Click here to search for mortgages, liens, and other legal documents.									

#### Values and Estimated Ad Valorem Taxes o

Values shown below are 2021 WORKING VALUES that are subject to change until certified.

The Market Value listed below is not intended to represent the anticipated selling price of the property and should not be relied upon by any individual or entity as a determination of current market value.

	Market	Assessed	Taxable		Estimated
Tax Authority	Value	Value	Value	Millage	\$9.67 \$0.89 \$0.90
LAKE COUNTY BCC GENERAL FUND	\$71,370	\$1,922	\$1,922	5.03270	\$9.67
LAKE COUNTY MSTU AMBULANCE	\$71,370	\$1,922	\$1,922	0.46290	\$0.89
LAKE COUNTY MSTU FIRE	\$71,370	\$1,922	\$1,922	0.47040	\$0.90

# PROPERTY RECORD CARD

### **General Information**

Name:	HYATT LINDA G	Alternate Key:	1282896			
Mailing Address:	8143 E DEWEY ROBBINS RD HOWEY IN THE HILLS, FL	Parcel Number: 0 EY IN THE HILLS, FL				
	34737-4591 <u>Update Mailing Address</u>	Millage Group and City:	000F (FRUITLAND PARK)			
		2021 Total Certified Millage Rate:	17.1686			
		Trash/Recycling/Water/Info:	My Public Services Map 1			
Property Location:	2740 LAKE ELLA RD FRUITLAND PARK FL 34731 Update Property Location 1	Property Name:	RED'S EQUIPMENT Submit Property Name			
	<u>opadic Property Education</u>	School Information:	School Locator & Bus Stop Map (1) School Boundary Maps (1)			
Property Description:	S 1/2 OF SE 1/4 OF SE 1/4 W OF RR & S OF CLAY RD ORB 1475 PG 266					

NOTE: This property description is a condensed/abbreviated version of the original description as recorded on deeds or other legal instruments in the public records of the Lake County Clerk of Court. It may not include the Public Land Survey System's Section, Township, Range information or the county in which the property is located. It is intended to represent the land boundary only and does not include essements or other interests of record. This description should not be used for purposes of conveying property title. The Property Appraiser assumes no responsibility for the consequences of inappropriate uses or interpretations of the property description.

### **Land Data**

Line	Land Use	Frontage	Depth	Notes	No. Units	Туре	Class Value	Land Value
1	SERVICE SHOP (2500)	0	0		3.26	AC	\$0.00	\$146,700.00
Click here for Zoning Info					FEMA F	lood	<u>Map</u>	

# Residential Building(s)

# **Building 001**

Reside	Residential Manufactured Home					Building Value: \$18,036.00				
				Sumn	nary					
Year B	uilt: 1978		Total Living Are	ea:	Centr	ral A/C: No	Att No	ached Garaç	ge:	
Bedroo	oms: 3	F	Full Bathrooms: 2		Half Bathrooms: 0		0 Fir	Fireplaces: 0		
		Inco	rrect Bedroon			her informa	ation? 0			
Section No.	Section Ty		Ext. Wall	Section No. Stories	on(s) Floor	r Finished	Baseme	nt Basement Finished	Map Color	
No. 1	Section Ty FINISHED AREA (FLA	pe LIVING	Ext. Wall Type	Section No.	on(s) Floor	r Finished Attic		nt		

# **Legal Description**

We are proposing to split two lots, Fruitland Lake Ella LLC Alt Key 2748770 and Linda Hyatt Alt Key 1282896, into three lots.

1. The first lot we are creating is for the subject 7-Eleven development. It will be created from the parent tract with Alt Key 2748770. The legal description for the proposed 7-Eleven Site is:

### 7-ELEVEN SITE – A PORTION OF ALT KEY 2748770

A portion of the northwest ¼ of the northeast ¼ of the northeast ¼ of section 33, township 18, range 24 east, Lake County, Florida, being more particularly described as follows:

Commence at the north ¼ corner of said section 33; run thence S89° 51′42″ E along the north line of the NE ¼ of said section 33, a distance of 1327.14 feet to the west line of the N/W ¼ of the NE ¼ of said section 33; thence S00°16′00″W, along said west line, a distance of 50.00 feet for a point of beginning; thence S89°51′42″E a distance of 353.22 feet; thence S44°44′13″E a distance of 28.23 feet to the west right-of-way line of U.S. Highway 27/441 as shown on Florida Department of Transportation right-of-way map, F.P. NO. 238395-4, section 10040; thence S02°14′34″W, along said west right-of-way line, a distance of 354.23 feet; thence N89°51′34″W a distance of 285.97′ feet; thence N00°16′00″E a distance of 305.00 feet; thence N89°45′01″W a distance of 75.00 feet to said west line of the NW ¼ of the NE ¼ of the NE ¼ of section 33; thence N00°16′00″E, along said west line, a distance of 68.84 feet to the point of beginning.

 The second lot we are proposing is comprised of two separate parcels with two separate Alt Keys. This second lot is for the proposed Lake Ella Roadway Extension and will be dedicated to Lake County. The legal description for the proposed Lake County Tract is:

#### LAKE COUNTY TRACT – A PORTION OF ALT KEY 1282896 & 2748770

A portion of the northwest ¼ of the northeast ¼ of the northeast ¼ of section 33, township 18 south, range 24 east, and a portion of the southwest ¼ of the southeast ¼ of the southeast ¼ of section 28, township 18 south, range 24 east, Lake County, Florida, being more particularly described as follows:

Commence at the north ¼ corner of said section 33; run thence S89° 51′ 42″ E along the north line of the NE ¼ of said section 33, a distance of 1327.14 feet to a point on the west line of the southwest ¼ of the southeast ¼ of said section 28 for a point of beginning; thence N00° 08′18″ E along said west line a distance of 50.00 feet; thence S89° 51′42″ E a distance of 275.50 feet to a non-tangent point on a curve concave northwesterly having a radius of 1892.20 feet, a chord bearing of S15° 08′17″W and a chord distance of 51.76 feet; thence run southwesterly along the arc of said curve through a central angle of 01° 34′03″ a distance of 51.77 feet to a point on the north line of the

northwest ¼ of the northeast ¼ of the northeast ¼ of said section 33; thence S89° 51′42″E along said north line a distance of 113.50 feet to the west right of way line of US highway 27/441 as shown on Florida Department of Transportation right of way map, F.P. 238395-4, section 11040; thence S02° 14′34″W along said west right-of-way line a distance of 70.06 feet; thence N44° 44′13″W a distance of 28.23 feet; thence N89 51′42″W a distance of 353.22 feet to the west line of the NW ¼ of the NE ¼ of the NE ¼ of said section 33; thence N00° 16′00″ E along said west line a distance of 50.00 fee to the point of beginning.

3. The third lot is the total Fruitland Lake Ella LLC Alt Key 2748770 minus the proposed Fruitland Lake Ella LLC Tract.

#### FRUITLAND LAKE ELLA LLC TRACT – A PORTION OF ALT KEY 2748770

A portion of the northwest ¼ of the northeast ¼ of the northeast ¼ of section 33, township 18, south, range 24 east, Lake County, Florida, being more particularly described as follows:

Commence at the north ¼ corner of said section 33; run thence S89° 51′42″E along the north line of the NE ¼ of said section 33, a distance of 1327.14 feet for a point of beginning; thence continue S89° 51′42″E along the north line of the northwest ¼ of the northeast ¼ of the northeast ¼ of said section 33 a distance of 375.60 feet to the west right-of-way line of US Highway 27/441 as shown on Florida Department of Transportation right of way map F.P. No. 238395-4, section 11040; thence S02° 14′34″W along said west right-of-way line a distance of 424.28 feet; thence N89° 51′34″W a distance of 285.97 feet; thence N00° 16′00″E a distance of 305.00 feet; thence N89° 45′01″W a distance of 75.00 feet to the west line of the NW ¼ of the NE ¼ of the NE ¼ of said section 33; thence N00° 16′00″E along said west line a distance of 118.84 feet to the point of beginning.

# PROJECT DIRECTORY

FRUITLAND LAKE ELLA, LLC

LEVY A. WONG 13362 SW 128 STREET MIAMI, FL. 33186 PHONE: (305) 255-3333

**DEVELOPER**: R.K.M. DEVELOPMENT CORP. 147 SECOND AVENUE, S, SUITE 400

ST. PETERSBURG, FL. 33701

PHONE: (727) 895-2150 FAX: (727) 821-5461

CIVIL ENGINEER / AGENT: COMMON OAK ENGINEERING, LLC 1209 EDGEWATER DRIVE, SUITE 100

ORLANDO, FL 32804 PHONE: (407) 951-5915

GEOTECH ENGINEER: ATC GROUP SERVICES LLC 5602 THOMPSON CENTER COURT, SUITE 405

TAMPA, FL. 33634 PHONE: (813) 889-8960

SURVEYOR: ALTAMAX SURVEYING

910 BELLE AVENUE, SUITE 1100 CASSELBERRY, FL. 32708 PHONE: (407) 677-0200

ARCHITECT:

INTERPLAN LLC 220 E. CENTRAL PKWY, SUITE 4000

ALTAMONTE SPRINGS, FL 32701 PHONE: (407) 645-5008

CONCURRENCY NOTE: 7-11 SITE CONTRACTOR TO COORDINATE THE WORK SHOWN IN THESE PLANS WITH THE CONTRACTORS PERFORMING ANY ROADWORK ON US HWY 27 IF BOTH PROJECTS ARE UNDER CONSTRUCTION AT THE SAME TIME

# **UTILITY PROVIDERS**

CITY OF FRUITLAND PARK 506 W. BERCKMAN STREET FRUITLAND PARK, FL 34731

PHONE: 352-360-6727 (OPTION 1)

ELECTRIC: CITY OF LEESBURG, LEESBURG ELECTRIC DEPARTMENT

> PHONE: 352-728-9830 WEBSITE: HTTPS://WWW.LEESBURGFLORIDA.GOV/ GOVERNMENT/DEPARTMENTS/ELECTRIC/ NEW\_CONSTRUCTION\_UPGRADES.PHP

SEWER: CITY OF FRUITLAND PARK

506 W. BERCKMAN STREET FRUITLAND PARK, FL 34731 PHONE: 352-360-6727 (OPTION 1)

COMMUNICATIONS: COMCAST PHONE: 352-787-7875

CITY OF LEESBURG NATURAL GAS DEPARTMENT PHONE: 352-728-9800

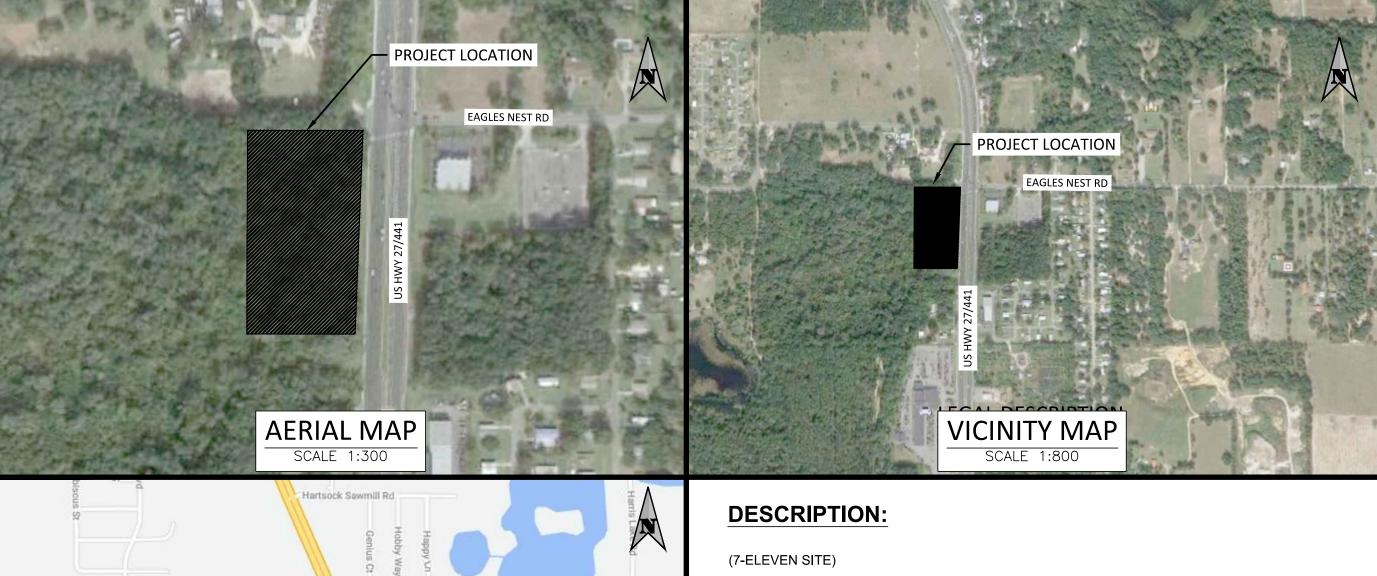
WEBSITE: HTTP://WWW.LEESBURGFLORIDA.GOV/ GOVERNMENT/DEPARTMENTS/GAS/INDEX.PHP CONSTRUCTION DRAWINGS

# 7-ELEVEN

WEST OF THE INTERSECTION OF US HWY 441 & EAGLES NEST RD.

FRUITLAND PARK, FL 34731

PARCEL #: 33-18-24-0001-000-00400



# Sunrise Rd Temple Hill Rd **PROJECT** LOCATION Lake Ella Rd Eagles Nest Rd Leisure Living I Mr. Pur Munn's Sales & Service, Inc. Phillips Buick GMC **LOCATION MAP**

A PORTION OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 33, TOWNSHIP 18 SOUTH, RANGE 24 EAST, LAKE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTH 1/4 CORNER OF SAID SECTION 33; RUN THENCE S89°51'42"E, ALONG THE NORTH LINE OF THE NE 1/4 OF SAID SECTION 33, A DISTANCE OF 1327.14 FEET TO THE WEST LINE OF THE NW 1/4 OF THE NE 1/4 OF THE NE 1/4 OF SAID SECTION 33; THENCE S00°16'00"W, ALONG SAID WEST LINE, A DISTANCE OF 50.00 FEET FOR A POINT OF BEGINNING; THENCE S89°51'42"E A DISTANCE OF 353.22 FEET; THENCE S44°44'13"E A DISTANCE OF 28.23 FEET TO THE WEST RIGHT-OF-WAY LINE OF U.S. HIGHWAY 27/441 AS SHOWN ON FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP, F.P. NO. 238395-4, SECTION 11040; THENCE S02°14'34"W, ALONG SAID WEST RIGHT-OF-WAY LINE, A DISTANCE OF 354.23 FEET; THENCE N89°51'34"W A DISTANCE OF 285.97' FEET; THENCE N00°16'00"E A DISTANCE OF 305.00 FEET; THENCE N89°45'01"W A DISTANCE OF 75.00 FEET TO SAID WEST LINE OF THE NW 1/4 OF THE NE 1/4 OF THE NE 1/4 OF SECTION 33; THENCE N00°16'00"E, ALONG SAID WEST LINE, A DISTANCE OF 68.84 FEET TO THE POINT OF BEGINNING.

#### GENERAL REVISION LOG NO: DATE: REVISION/ISSUE: SHEETS REVISED 2 06/30/21 FDOT COMMENTS C4.0, C5.0 JE C5.0, C7.0, C7,2, D3.0, D3.1, D3.2, D3.3 3 06/30/21 CITY OF FRUITLAND PARK RAI #1 JE C5.0, D2.1, D2.3 4 07/14/21 SJRWMD COMMENTS RWB 5 08/17/21 CITY OF FRUITLAND PARK COMMENTS RWB 6 08/18/21 FDOT LAKE ELLA RD COMMENTS C4.0, C5.0, C6.0, C6.1 RWB 7 09/21/21 FDOT ACCESS COMMENTS IMW 8 09/17/21 SJRWMD COMMENTS C2.2, C5.0, D2.1, D2.3, D2.8, D2.9, D2.10 RWB 9 | 10/14/21 | FDOT COMMENTS 10 10/13/21 CITY OF FRUITLAND PARK COMMENTS C6.0, C6.1, D2.4 RWB 11 | 10/29/21 | SJRWMD COMMENTS C5.0, D2.3, D2.10 RWB 12 | 11/09/21 | FDOT COMMENTS RWB 13 | 12/07/21 | FDOT COMMENTS C4.0, 4.1, 4.2, 5.0, 6.0, 6.1 D2.3, D2.0, 2.1, 2.3, 3.4 RWB C4.0, 4.1, 4.2, 5.0, 6.0, 6.1 D2.3, D2.0, 2.1, 2.3, 3.4 14 | 12/08/21 | OWNER REVISION RWB 15 01/13/22 SJRWMD COMMENTS RWB 16 01/21/22 CITY OF FRUITLAND PARK COMMENTS C3.0, C4.0, C4.1, C4.2, C5.0, C7.1, C7.2 RWB

# PLAN SHEET INDEX

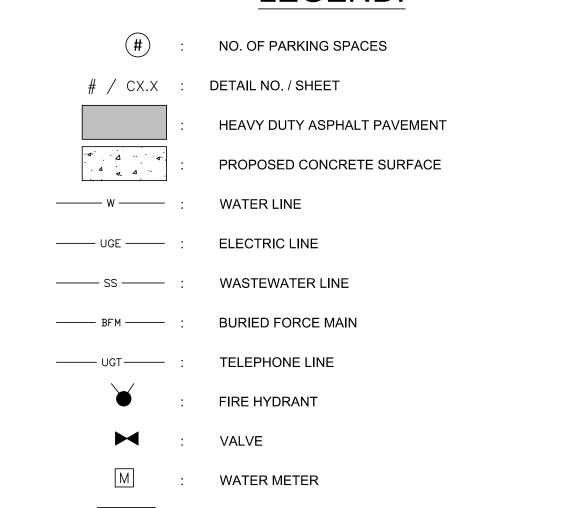
COVER SHEET	D1.2	DETAILS (FDOT)
GENERAL NOTES	D1.3	DETAILS (FDOT)
GENERAL NOTES	D1.4	DETAILS (FDOT)
GENERAL NOTES	D1.5	DETAILS (FDOT)
DEMO PLAN	D1.6	DETAILS (FDOT)
SITE PLAN	D1.7	DETAILS (MOT)
VEHICLE ROUTING PLAN	D2.0	DETAILS (GRADING)
VEHICLE ROUTING PLAN	D2.1	DETAILS (GRADING)
GRADING PLAN	D2.2	DETAILS (PROFILES)
UTILITY PLAN	D2.3	DETAILS (FDOT PROF
UTILITY PLAN	D2.4	DETAILS (FDOT PROF
LANDSCAPE PLAN	D2.5	NOT USED
IRRIGATION PLAN	D2.6	DETAILS (TYPICAL SE
TREE REMOVAL PLAN	D2.7	DETAILS (PROFILES)
PHOTOMETRIC PLAN	D3.0	DETAILS (UTILITY)
	GENERAL NOTES GENERAL NOTES GENERAL NOTES DEMO PLAN SITE PLAN VEHICLE ROUTING PLAN VEHICLE ROUTING PLAN GRADING PLAN UTILITY PLAN UTILITY PLAN LANDSCAPE PLAN IRRIGATION PLAN	GENERAL NOTES GENERAL NOTES D1.4 GENERAL NOTES D1.5 DEMO PLAN D1.6 SITE PLAN VEHICLE ROUTING PLAN D2.0 VEHICLE ROUTING PLAN D2.1 GRADING PLAN D2.2 UTILITY PLAN D2.3 UTILITY PLAN D2.4 LANDSCAPE PLAN D2.6 TREE REMOVAL PLAN D2.7

PHOTOMETRIC DETAILS D3.1 DETAILS (UTILITY) **EROSION CONTROL PLAN** D3.2 DETAILS (UTILITY) **EROSION CONTROL DETAILS** D3.3 DETAILS (LIFT STATION) DETAILS (SITE) D3.4 DETAILS (PROFILES)

DETAILS (SITE)

# LEGEND:

SURVEY (5 SHEETS)



BACKFLOW PREVENTER WITH CONCRETE PAD SPOT ELEVATION (TO TOP OF PAVEMENT UNLESS SPECIFIED OTHERWISE)

FLOW ARROW REVISION NUMBER

FIRE DEPARTMENT CONNECTION

Jeremy R. Anderson, State of Florida, Professional Engineer, License No. 71636 This item has been digitally signed and sealed by Jeremy R. Anderson on the date indicated here.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



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ENT PMDEVELOF

**₹** 147 SUI ST.

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COMMON OAK ENGINEERING ORLANDO, FL. 32804 (407)951-5915 RTIFICATE OF AUTHORIZATION: 32

**VEN** 42100 LAKE EL IK, FL 34'

ENGINEER'S NAME & PE#

JEREMY R. ANDERSON, P.E. P.E. LICENSE NO. 71636 PROJECT # 221.056

01/28/2022 N.T.S. **COVER SHEET** 

- CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE NOTES AND SPECIFICATIONS CONTAINED HEREIN. THESE NOTES SHALL APPLY TO ALL WORK IN THIS SET OF CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE CONFORMANCE TO THESE REQUIREMENTS BY ALL
- LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES, AFFECTING THIS WORK, PRIOR TO CONSTRUCTION AND PRIOR TO PROVIDING A COST FOR CONSTRUCTION. CONTRACTOR MUST NOTIFY ENGINEER AND OWNER, IN WRITING, IF ANY CONFLICTS, DISCREPANCIES, OR AMBIGUITIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. NO EXTRA COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR WORK WHICH HAS TO BE REDONE OR REPAIRED DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS PRIOR TO CONTRACTOR GIVING ENGINEER AND OWNER WRITTEN NOTIFICATION OF SAME AND ENGINEER AND OWNER, THEREAFTER, PROVIDING CONTRACTOR WITH WRITTEN AUTHORIZATION TO PROCEED WITH SUCH
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT INSPECTION AND CERTIFICATION REQUIREMENTS SPECIFIED BY THE VARIOUS GOVERNMENTAL AGENCIES AND THE ENGINEER. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY INSTRUCTIONS/REQUIREMENTS.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR MUST COORDINATE THE BUILDING LAYOUT BY CAREFUL REVIEW OF THE ENTIRE SITE PLAN AND THE LATEST ARCHITECTURAL PLANS (INCLUDING, BUT NOT LIMITED TO, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION PLAN WHERE APPLICABLE). CONTRACTOR MUST IMMEDIATELY NOTIFY OWNER, ARCHITECT AND SITE ENGINEER, IN WRITING, OF ANY CONFLICTS, DISCREPANCIES OR AMBIGUITIES WHICH EXIST.
- NO EXTRA PAYMENT WILL BE ALLOWED FOR ANY WORK REQUIRED DUE TO MISUNDERSTANDING OF JOB OR SITE CONDITIONS AFFECTING THE WORK AS DESCRIBED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL NOT TAKE ADVANTAGE OF ANY APPARENT ERROR OR OMISSIONS IN THE DRAWINGS OR SPECIFICATIONS, AND THE ENGINEER SHALL BE PERMITTED TO MAKE CORRECTIONS AND INTERPRETATIONS AS MAY BE DEEMED NECESSARY FOR THE FULFILLMENT OF THE INTENT ON THE CONTRACT DOCUMENTS. THE TENDERING OF A PROPOSAL WILL ACKNOWLEDGE ACCEPTANCE OF THESE CONDITIONS BY THE BIDDER.
- THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS, MEANS, TECHNIQUES OR PROCEDURES, GENERALLY OR FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES OR PROCEDURES FOR COMPLETION OF THE WORK DEPICTED BOTH ON THESE PLANS, AND FOR ANY CONFLICTS/SCOPE REVISIONS WHICH RESULT FROM SAME. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE METHODS/MEANS FOR COMPLETION OF THE WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- THE GEOTECHNICAL REPORT AND RECOMMENDATIONS SET FORTH HEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND, IN CASE OF CONFLICT, DISCREPANCY OR AMBIGUITY, THE MORE STRINGENT REQUIREMENTS AND/OR RECOMMENDATIONS CONTAINED IN THE PLANS AND THE GEOTECHNICAL REPORT AND RECOMMENDATIONS SHALL TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR MUST NOTIFY THE ENGINEER, IN WRITING, OF ANY SUCH CONFLICT, DISCREPANCY OR AMBIGUITY BETWEEN THE GEOTECHNICAL REPORTS AND PLANS AND SPECIFICATIONS PRIOR TO PROCEEDING WITH ANY FURTHER WORK.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL PRE-CAST AND MANUFACTURED ITEMS TO THE OWNER'S ENGINEER FOR REVIW, PRIOR TO ORDERING. FAILURE TO SUBMIT FOR REVIEW BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. THE ENGINEER WILL REVIEW OR TAKE OTHER APPROPRIATE ACTION ON THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND OTHER DATA, WHICH THE CONTRACTOR IS REQUIRED TO SUBMIT, BUT ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH THE DESIGN INTENT AND THE INFORMATION SHOWN IN THE CONSTRUCTION CONTRACT DOCUMENTS. CONSTRUCTION MEANS AND/OR METHODS AND/OR TECHNIQUES OR PROCEDURES, COORDINATION OF THE WORK WITH OTHER TRADES, AND CONSTRUCTION SAFETY PRECAUTIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND COMMON OAK ENGINEERING HAS NO RESPONSIBILITY OR LIABILITY FOR SAME HEREUNDER. THE SHOP DRAWING REVIEW WILL BE CONDUCTED WITH REASONABLE PROMPTNESS WHILE ALLOWING SUFFICIENT TIME TO PERMIT ADEQUATE REVIEW. REVIEW OF A SPECIFIC ITEM MUST NOT INDICATE THAT COMMON OAK ENGINEERING HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. COMMON OAK ENGINEERING WILL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT PROMPTLY AND IMMEDIATELY BROUGHT TO ITS ATTENTION, IN WRITING, BY THE CONTRACTOR. COMMON OAK ENGINEERING WILL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.
- NEITHER THE PROFESSIONAL ACTIVITIES OF OWNER'S ENGINEER, NOR THE PRESENCE OF AND/OR ITS RELATED ENTITIES AT A CONSTRUCTION/PROJECT SITE, SHALL RELIEVE THE GENERAL CONTRACTOR OF ITS OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, OVERSEEING, SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND COMPLIANCE WITH ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES WITH JURISDICTION OVER THE PROJECT AND/OR PROPERTY. THE OWNERS ENGINEER AND ITS PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PROGRAMS OR PROCEDURES. THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY.
- ALL CONTRACTORS MUST CARRY THE SPECIFIED STATUTORY WORKER'S COMPENSATION INSURANCE, EMPLOYER'S LIABILITY INSURANCE AND LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE (CGL). ALL CONTRACTORS MUST HAVE THEIR CGL POLICIES ENDORSED TO NAME COMMON OAK ENGINEERING AND ITS SUB-CONSULTANTS AS ADDITIONAL NAMED INSURERS AND TO PROVIDE CONTRACTUAL LIABILITY COVERAGE SUFFICIENT TO INSURE THIS HOLD HARMLESS AND INDEMNITY OBLIGATIONS ASSUMED BY THE CONTRACTORS. ALL CONTRACTORS MUST FURNISH COMMON OAK ENGINEERING WITH CERTIFICATIONS OF INSURANCE AS EVIDENCE OF THE REQUIRED INSURANCE PRIOR TO COMMENCING WORK AND UPON RENEWAL OF EACH POLICY DURING THE ENTIRE PERIOD OF CONSTRUCTION. IN ADDITION, ALL CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, INDEMNIFY AND HOLD HARMLESS COMMON OAK ENGINEERING AND ITS SUB-CONSULTANTS FROM AND AGAINST ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE
- ALL UTILITY SERVICE STUB-OUTS (WATER, SANITARY SEWER, ETC.) ARE TO BE INSTALLED TO WITHIN 5' OF BUILDING(S), UNLESS OTHERWISE NOTED ON
- THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL CALL "SUNSHINE" AT 1-800-432-4770, AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, TO ARRANGE FOR FIELD LOCATIONS OF BURIED UTILITIES.
- 13. CONTRACTOR TO COORDINATE WITH THE APPLICABLE ELECTRIC UTILITY SUPPLIER REGARDING ANY NECESSARY RELOCATION(S) OF UNDERGROUND AND/OR OVERHEAD ELECTRIC FACILITIES. AND FOR THE LOCATION AND INSTALLATION OF TRANSFORMER PAD(S) AND ASSOCIATED ELECTRIC FACILITIES.
- 4. FLORIDA STATUTES REQUIRES THAT THE COMPANY PERFORMING THE EXCAVATION WORK SHALL NOTIFY ALL GAS UTILITIES A MINIMUM OF TWO (2) & A MAXIMUM OF FIVE (5) WORKING DAYS PRIOR TO EXCAVATING. DRAWINGS SHOW ONLY THE APPROXIMATE LOCATION OF GAS MAINS (IF ANY ARE PRESENT), AND DO NOT SHOW SERVICE LINES. THE ONLY SAFE AND PROPER WAY TO LOCATE EITHER MAINS OR SERVICE LINES IS BY AN ON-SITE INSPECTION BY GAS SYSTEM PERSONNEL THEREFORE. THE COMPANY PERFORMING THE EXCAVATION WORK IS INSTRUCTED TO CALL SUNSHINE ONE CALL AT 1-800-432-4770 AT LEAST TWO (2) & A MAXIMUM OF FIVE (5) WORKING DAYS BEFORE DIGGING THE CONSTRUCTION AREA. NO MACHINE EXCAVATION SHALL BE PERFORMED WITHIN FIVE 5 FEET OF A GAS MAIN WITHOUT THE UTILITY OWNERS PRESENCE. WORKING DAYS EXCLUDE SATURDAYS, SUNDAYS & LEGAL HOLIDAYS. PERMIT MUST BE APPLIED FOR AT LEAST 5 BUSINESS DAYS PRIOR TO CONSTRUCTION DATE.
- THE ENGINEER OF RECORD, DESIGN ENGINEER OR OWNER'S ENGINEER HAS NO CONTRACTUAL, LEGAL, OR OTHER RESPONSIBILITY FOR JOB SITE SAFETY OR JOB SITE SUPERVISION, OR ANYTHING RELATED TO SAME. THE BELOW ARE SAFETY GUIDELINES AND ARE NOT ALL ENCOMPASSING:
- A. DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS/HER PERSONNEL.
- B. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION.
- C. THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF "THE STATE OF FLORIDA, MANUAL ON TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION. MAINTENANCE AND UTILITY OPERATIONS" SHALL BE FOLLOWED IN THE DESIGN. APPLICATION. INSTALLATION. MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND CONSTRUCTION PERSONNEL FROM HAZARDS WITHIN THE PROJECT LIMITS.
- D. ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.
- E. ALL SUBSURFACE CONSTRUCTION SHALL COMPLY WITH THE "TRENCH SAFETY ACT". THE CONTRACTOR SHALL INSURE THAT THE METHOD OF TRENCH PROTECTION AND CONSTRUCTION IS IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS.
- IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR JOB SITE SAFETY. THE ENGINEER OF RECORD HAS NOT BEEN RETAINED TO PERFORM OR BE RESPONSIBLE FOR JOB SITE SAFETY, SAME BEING WHOLLY OUTSIDE OF ENGINEER'S SERVICES AS RELATED TO THE
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN A RIGHT-OF-WAY UTILIZATION PERMIT "ROW PERMIT" (IF REQUIRED) FOR CONSTRUCTION OF THE PROPOSED UTILITY FACILITIES. THIS PERMIT MUST BE OBTAINED BY A DULY LICENSED PLUMBING/UTILITY CONTRACTOR (OR CLASS A GENERAL CONTRACTOR) PRIOR TO THE START OF CONSTRUCTION. THESE PLANS AND ANY SUBSEQUENT REVISIONS TO THESE PLANS THAT ARE ISSUED BY THE ENGINEER WILL BE SUBJECT TO THE APPROVAL CONDITIONS OF THIS PERMIT.
- THE GRAPHIC INFORMATION DEPICTED ON THESE PLANS HAS BEEN COMPILED TO PROPORTION BY SCALE AS ACCURATELY AS POSSIBLE. HOWEVER, DUE TO REPRODUCTIVE DISTORTION. REDUCTION. AND/OR REVISIONS. INFORMATION CONTAINED HEREIN IS NOT INTENDED TO BE SCALED FOR CONSTRUCTION
- WHEN DETAILS ARE PROVIDED, CONTRACTOR SHALL CONSTRUCT JOB PER SPECIFIC DETAILS AND NOT BY SCALING FROM THESE PLANS.

PROJECT. THE ENGINEER OF RECORD IS NOT RESPONSIBLE TO IDENTIFY OR REPORT ANY JOB SITE SAFETY ISSUES, AT ANY TIME.

- THIS SET OF PLANS MAY CONTAIN DRAWINGS PREPARED BY OTHER PROFESSIONALS, WHICH CONTAIN THE NAME, ADDRESS, AND LOGO OF THE
- PROFESSIONAL. COMMON OAK ENGINEERING, LLC IS NOT RESPONSIBLE FOR DRAWINGS PREPARED BY OTHER PROFESSIONALS.

RELATED TO POOR SCHEDULE PLANNING.

- 18. ALL SPECIFICATIONS AND DOCUMENTS REFERENCED HEREIN SHALL BE OF THE LATEST REVISION. 19. ALL UNDERGROUND UTILITIES MUST BE IN-PLACE, TESTED AND INSPECTED PRIOR TO BASE AND SURFACE CONSTRUCTION.
- 20. WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH ANY OTHER WORK BEING PERFORMED ON-SITE BY OTHER CONTRACTORS/SUBCONTRACTORS AND UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE GENERAL CONTRACTOR TO COORDINATE AND SCHEDULE ITS ACTIVITIES ACCORDINGLY. THE CONTRACTOR SHALL PLAN AND SCHEDULE THE SEQUENCE OF WORK IN ORDER TO PREVENT UNNECESSARY DELAYS OR COSTS ASSOCIATED WITH CRITICAL PATH ITEMS OF THE WORK. IT IS RECOMMENDED THAT A FINAL SCHEDULE SHALL BE GIVEN TO THE OWNER, THE OWNERS ENGINEER AND ARCHITECT. THE CONTRACTOR AND SUB-CONTRACTORS WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH DELAYS
- 21. ALL AREAS AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING CONDITION. UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. THE COST FOR SUCH RESTORATION SHALL BE INCIDENTAL TO OTHER CONSTRUCTION AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED, BY THE CONTRACTOR OR SUBCONTRACTORS, SHALL BE REPAIRED. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

- 23. THE CONTRACTOR SHALL REMAIN SOLELY RESPONSIBLE FOR ANY DESIGN CHANGES WHICH HE MAY INCORPORATE INTO THE PLANS WITHOUT PRIOR WRITTEN CONSENT AND/OR APPROVAL FROM THE OWNER AND ENGINEER.
- 24. ENGINEER IS NOT RESPONSIBLE FOR ANY INJURY OR DAMAGES RESULTING FROM CONTRACTOR'S FAILURE TO BUILD OR CONSTRUCT IN STRICT ACCORDANCE WITH THE APPROVED PLANS. IF CONTRACTOR AND/OR OWNER FAIL TO BUILD OR CONSTRUCT IN STRICT ACCORDANCE WITH APPROVED PLANS, THEY AGREE TO JOINTLY AND SEVERALLY INDEMNIFY AND HOLD ENGINEER HARMLESS FOR ALL INJURIES AND DAMAGES THAT ENGINEER SUFFERS AND COSTS THAT THE ENGINEER INCURS.
- 25. OWNER MUST MAINTAIN AND PRESERVE ALL PHYSICAL SITE FEATURES AND DESIGN FEATURES DEPICTED ON THE PLANS AND RELATED DOCUMENTS, II STRICT ACCORDANCE WITH THE APPROVED PLAN(S) AND DESIGN AND FURTHER, ENGINEER IS NOT RESPONSIBLE FOR ANY FAILURE TO SO MAINTAIN OR PRESERVE SITE AND/OR DESIGN FEATURES. IF OWNER FAILS TO MAINTAIN AND/OR PRESERVE ALL PHYSICAL SITE FEATURES AND/OR DESIGN FEATURES DEPICTED ON THE PLANS AND RELATED DOCUMENTS, OWNER AGREES TO INDEMNIFY AND HOLD ENGINEER HARMLESS FOR ALL INJURIES
- AS CONTAINED IN THESE DRAWINGS AND ASSOCIATED APPLICATION DOCUMENTS PREPARED BY THE SIGNATORY PROFESSIONAL ENGINEER, THE USE OI THE WORDS CERTIFY OR CERTIFICATION CONSTITUTES AN EXPRESSION OF 'PROFESSIONAL OPINION' REGARDING THE INFORMATION WHICH IS THE SUBJECT OF THE UNDERSIGNED PROFESSIONAL KNOWLEDGE OR BELIEF AND IN ACCORDANCE WITH COMMON ACCEPTED PROCEDURE CONSISTENT WITH THE APPLICABLE STANDARDS OF PRACTICE, AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE, EITHER EXPRESSED OR IMPLIED.
- 7. UPON THE RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND ARRANGE A PRE-CONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, THE OWNER AND THE ENGINEER OF RECORD
- ALL UTILITY EASEMENTS SHALL BE SECURED PRIOR TO CONSTRUCTION (IF REQUIRED) OR IF ALLOWED PRIOR TO CERTIFICATE OF OCCUPANCY. THESE EASEMENTS SHALL BE SKETCHED, DESCRIBED, AND RECORDED AT THE SOLE COST OF THE CONTRACTOR.
- 29. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL FURNISH THE OWNER'S ENGINEER WITH COMPLETE "AS-BUILT" INFORMATION, MINIMUN "AS-BUILT" SCOPE HEREIN, CERTIFIED BY A REGISTERED LAND SURVEYOR. NO ENGINEER'S CERTIFICATIONS FOR CERTIFICATE OF OCCUPANCY (C.O. PURPOSES WILL BE MADE UNTIL THIS INFORMATION HAS BEEN RECEIVED AND APPROVED BY THE OWNER'S ENGINEER.
- 30. PROTECT BENCHMARKS, PROPERTY CORNERS, AND OTHER SURVEY MONUMENTS FROM DAMAGE OR DISPLACEMENT. IF MARKER NEEDS TO BE REMOVED, IT SHALL BE REFERENCED BY LICENSED LAND SURVEYOR AND REPLACED AS NECESSARY, BY SAME.
- AFTER THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PERFORM SITE CLEAN UP OPERTATION FOR REMOVAL OF ALL TRASH, DEBRIS EXCESS MATERIAL & EQUIPMENT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PRESENT THE SITE CLEAN & IN GOOD ORDER AT THE TIME OF FINAL
- ALL EQUIPMENT SHALL BE HANDLED, STORED, INSTALLED, TESTED & OPERATED IN STRICT ACCORDANCE WITH THE APPLICABLE MANUFACTURES WRITTEN
- 33. CONSULTANT IS NEITHER LIABLE NOR RESPONSIBLE FOR ANY SUBSURFACE CONDITIONS AND FURTHER, SHALL HAVE NO LIABILITY FOR ANY HAZARDOUS MATERIALS, HAZARDOUS SUBSTANCES, OR POLLUTANTS ON, ABOUT OR UNDER THE PROPERTY.
- CONTRACTORS MUST EXERCISE APPROPRIATE CARE AND PRECISION IN CONSTRUCTION OF ADA (HANDICAP) ACCESSIBLE COMPONENTS AND ACCESS ROUTES FOR THE SITE. THESE COMPONENTS, AS CONSTRUCTED, MUST COMPLY WITH THE CURRENT LOCAL CODE REQUIREMENTS, AS WELL AS STATE BUILDING CODE AND THE DEPARTMENT OF JUSTICE ADA STANDARDS AND REGULATIONS' BARRIER FREE ACCESS AND ANY MODIFICATIONS, REVISIONS OR UPDATES TO SAME.

# HISTORICAL RESOURCES PRESERVATION NOTES:

- IF PREHISTORIC OR HISTORIC ARTIFACTS, SUCH AS POTTERY OR CERAMICS, STONE TOOLS OR METAL IMPLEMENTS, OR ANY OTHER PHYSICAL REMAINS THAT COULD BE ASSOCIATED WITH NATIVE AMERICAN CULTURES, OR EARLY COLONIAL OR AMERICAN SETTLEMENT ARE ENCOUNTERED AT ANY TIME WITHIN THE PROJECT SITE AREA, THE PERMITTED PROJECT SHOULD CEASE ALL ACTIVITIES INVOLVING SUBSURFACE DISTURBANCE IN THE IMMEDIATE VICINITY OF SUCH DISCOVERIES. THE PERMITTEE, OR OTHER DESIGNEE, SHOULD CONTACT THE FLORIDA DEPARTMENT OF THE STATE, DIVISION OF HISTORICAL RESOURCES, REVIEW AND COMPLIANCE SECTION AT (850) 245-6333 OR (800) 847-7278, AS WELL AS THE APPROPRIATE PERMITTING AGENCY OFFICE. PROJECT ACTIVITIES SHOULD NOT RESUME WITHOUT VERBAL AND/OR WRITTEN AUTHORIZATION FROM THE DIVISION OF HISTORICAL RESOURCES.
- IN THE EVENT THAT UNMARKED HUMAN REMAINS ARE ENCOUNTERED DURING PERMITTED ACTIVITIES, ALL WORK SHALL STOP IMMEDIATELY AND THE PROPER AUTHORITIES NOTIFIED IN ACCORDANCE WITH SECTION 872.05FLORIDA STATUES.
- IF DURING CONSTRUCTION ACTIVITIES ANY EVIDENCE OF THE PRESENCE OF STATE AND/OR FEDERALLY PROTECTED PLANT AND/OR ANIMAL SPECIES OR THOSE LISTED AS THREATENED, ENDANGERED OR OF SPECIAL CONCERN IS DISCOVERED OR OBSERVED, WORK SHALL COME TO AN IMMEDIATE STOP AND THE DEVELOPER, OWNER, OR AGENT THEREOF SHALL NOTIFY THE FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FFWCC), THE U.S. FISH AND WILDLIFE SERVICE (USFWS) AND CITY/COUNTY AUTHORITIES WITHIN 24 HOURS OF THE PLANT AND/OR ANIMAL SPECIES FOUND ON THE SITE.

- THE DEMOLITION PLAN IS INTENDED TO PROVIDE GENERAL INFORMATION ONLY, REGARDING ITEMS TO BE DEMOLISHED AND/OR REMOVED AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR MUST REVIEW THE OTHER SITE PLAN DRAWINGS AND INCLUDE IN DEMOLITION ACTIVITIES ALL INCIDENTAL WORK NECESSARY FOR THE CONSTRUCTION OF THE NEW SITE IMPROVEMENTS.
- CONTRACTOR MUST RAISE ANY QUESTIONS CONCERNING THE ACCURACY OR INTENT OF THESE PLANS OR SPECIFICATIONS, CONCERNS REGARDING THI APPLICABLE SAFETY STANDARDS, OR THE SAFETY OF THE CONTRACTOR OR THIRD PARTIES IN PERFORMING THE WORK ON THIS PROJECT, WITH THE OWNER OR THE OWNERS ENGINEER, IN WRITING, AND RESPONDED TO BY THE OWNER OR THE OWNERS ENGINEER, IN WRITING, PRIOR TO THE INITIATION OF ANY SITE ACTIVITY AND ANY DEMOLITION ACTIVITY. ALL DEMOLITION ACTIVITIES MUST BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS AND ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, RULES, REQUIREMENTS, STATUTES, ORDINANCES AND
- PRIOR TO STARTING ANY DEMOLITION, CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL EROSION CONTROL DEVICES PER THE SWPPP CONTAINED WITHIN HESE CONSTRUCTION DOCUMENTS AND OBTAINING ALL REQUIRED PERMITS AND MAINTAINING THE SAME ON SITE FOR REVIEW BY THE ENGINEER AN OTHER PUBLIC AGENCIES HAVING JURISDICTION THROUGHOUT THE DURATION OF THE PROJECT, SITE WORK AND DEMOLITION WORK.
- SITE DEMOLITION SHALL BE CONDUCTED IN SUCH A MANNER THAT OPERATIONS WILL HAVE MINIMAL INTERFERENCE WITH ROADS, STREETS, WALKS, ANI OTHER ADJACENT OCCUPIED OR USED FACILITIES. DO NOT CLOSE OR OBSTRUCT STREET, WALKS OR OTHER OCCUPIED OR USED FACILITIES WITHOUT WRITTEN PERMISSION FROM AUTHORITIES HAVING JURISDICTION OVER SAID PROPERTY
- ALL EXISTING ITEMS TO REMAIN MUST BE PROTECTED IN SUCH A MANNER AS TO PREVENT DAMAGE.

REQUIREMENTS.

- ALL DAMAGED IMPROVEMENTS MUST BE RESTORED TO THEIR ORIGINAL CONDITION, OR BETTER, AS ACCEPTABLE TO THE PARTIES HAVING JURISDICTION.
- STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES MUST BE PROTECTED FROM DAMAGED CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER HAZARDS CREATED BY DEMOLITION OPERATIONS.
- IN THE ABSENCE OF SPECIFICATIONS, THE CONTRACTOR SHALL PERFORM EARTH MOVEMENT ACTIVITIES, DEMOLITION AND REMOVAL OF ALL FOUNDATION WALLS, FOOTINGS, AND OTHER MATERIALS WITHIN THE LIMITS OF DISTURBANCE IN ACCORDANCE WITH DIRECTION BY OWNER'S STRUCTURAL OR GEOTECHNICAL ENGINEER.
- EXPLOSIVES SHALL NOT BE USED WITHOUT PRIOR WRITTEN CONSENT OF BOTH THE OWNER AND APPLICABLE GOVERNMENTAL AUTHORITIES. ALL THI REQUIRED PERMITS AND EXPLOSIVE CONTROL MEASURES THAT ARE REQUIRED BY THE FEDERAL, STATE, AND LOCAL GOVERNMENTS SHALL BE IN PLACE PRIOR TO STARTING AN EXPLOSIVE PROGRAM. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL INSPECTION AND SEISMIC VIBRATION TESTING THAT IS REQUIRED TO MONITOR THE EFFECTS ON ALL LOCAL STRUCTURES
- USE DUST CONTROL MEASURES TO LIMIT AIRBORNE DUST AND DIRT RISING AND SCATTERING IN THE AIR IN ACCORDANCE WITH FEDERAL, STATE, AND/OR LOCAL STANDARDS, AFTER THE DEMOLITION IS COMPLETE, ADJACENT STRUCTURES AND IMPROVEMENTS SHALL BE CLEANED OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL ADJACENT AREAS TO THEIR "PRE-DEMOLITION" CONDITION.
- CONTRACTOR IS RESPONSIBLE TO SAFEGUARD SITE AS NECESSARY TO PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE ENTRY OF UNAUTHORIZED PERSONS AT ANY TIME.
- 2. DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE. ALL DEMOLITION WASTES AND DEBRIS (SOLID WASTE, REFUSE, COMBUSTIBLE DEBRIS, ETC.) SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL TOWN, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE CODES.
- ALL FENCES, MAILBOXES, AND SIGNAGE DISTURBED BY CONSTRUCTION SHALL BE RELOCATED OR REPLACED AT NO ADDITIONAL COST TO OWNER.
- ANY UTILITIES ENCOUNTERED DURING DEMOLITION THAT ARE NOT DEPICTED/ADDRESSED ON THE CONSTRUCTION DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE CONTRACTOR SHALL COORDINATE WITH UTILITY OWNER PRIOR TO REMOVAL AND/OR RELOCATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION OF THE EROSION CONTROL DEVICES, AS SHOWN ON THE CONSTRUCTION PLANS, PRIOR TO ANY SITE CLEARING. REFER TO THE "EROSION CONTROL PLAN" CONTAINED HEREIN THE CONSTRUCTION DOCUMENT FOR ADDITIONAL
- UNLESS OTHERWISE DIRECTED BY THE OWNER OR ENGINEER, THE CONTRACTOR IS EXPECTED TO CONTAIN ALL CONSTRUCTION ACTIVITIES WITHIN THI PROPERTY, RIGHT-OF-WAY, AND EASEMENTS AS INDICATED ON THE DRAWINGS. AT NOT TIME SHALL THE CONTRACTOR DISTURB SURROUNDING PROPERTIES OR TRAVELS ON SURROUNDING PROPERTIES WITHOUT WRITTEN PERMISSION FORM THE GOVERNING OWNER. THE CONTRACTOR SHALL BARE THE RESPONSIBILITY OF ALL COST RELATED TO REPAIRS/RECONSTRUCTION OF DAMAGED AREAS TO SURROUNDING PROPERTIES.
- PRIOR TO ANY SITE CLEARING, ALL TREES SHOWN TO REMAIN, AS INDICATED ON THE CONSTRUCTION PLANS, SHALL BE PROTECTED IN ACCORDANCE WITH LOCAL TREE ORDINANCES, AND DETAILS CONTAINED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THESE TREES IN GOOD CONDITION. NO TREE(S) SHOWN TO REMAIN SHALL BE REMOVED WITHOUT WRITTEN APPROVAL FROM THE OWNER AND THE LOCAL AGENCY HAVING JURISDICTION OVER THESE ACTIVITIES.
- PRIOR TO THE COMMENCEMENT OF CONSTRUCTION STAKE OUT THE CONSTRUCTION, ESTABLISH LINES AND LEVELS, TEMPORARY BENCH MARKS, BATTEF BOARDS, CENTERLINES, BASELINE AND REFERENCE POINTS FOR THE PROPOSED WORK AND VERIFY ALL DIMENSIONS RELATING TO THE INTERCONNECTIONS WITH EXISTING FEATURES. ANY INCONSISTENCIES IN THE PROPOSED GRADES, LINES AND LEVELS, DIMENSIONS AND LOCATIONS SHALL BE REPORT TO THE ENGINEER.
- THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. ALL DISTURBED AREAS MUST BE SODDED WITH BAHIA SOD, UNLESS OTHERWISE NOTED ON PLANS, IMMEDIATELY FOLLOWING CONSTRUCTION.
- ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE SODDED OR SEEDED AS SPECIFIED IN THE PLANS, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL EARTHEN AREAS WILL BE SODDED OR SEEDED AND MULCHED AS SHOWN ON THE LANDSCAPING PLAN.
- THE TOP 4" TO 6" OF GROUND REMOVED DURING CLEARING AND GRUBBING ACTIVITIES SHALL BE STOCKPILED, TO BE USED FOR LANDSCAPING PURPOSES UNLESS OTHERWISE DIRECTED BY THE OWNER. REMAINING EARTHWORK THAT RESULTS FROM CLEARING AND GRUBBING OR SITE EXCAVATION IS TO BE UTILIZED ON-SITE, PROVIDED THE MATERIAL IS DEEMED SUITABLE BY THE OWNER'S SOILS TESTING COMPANY. EXCESS MATERIAL IS TO EITHER BI STOCKPILED ON-SITE. AS DIRECTED BY THE OWNER OR OWNER'S ENGINEER, OR REMOVED FROM THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING EXCESS EARTHWORK FROM THE SITE.

- ANY WELLS DISCOVERED ON SITE THAT WILL HAVE NO USE MUST BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN A MANNER APPROVED BY ALL JURISDICTIONAL AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY WELL ABANDONMENT PERMITS REQUIRED.
- ANY WELL DISCOVERED DURING EARTH MOVING OR EXCAVATION SHALL BE REPORTED TO THE APPROPRIATE JURISDICTIONAL AGENCIES WITHIN 24 HOURS
- ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE BY THE
- CONTRACTOR, IN ACCORDANCE WITH APPLICABLE REGULATORY AGENCY REQUIREMENTS. A DUMPSTER OR OTHER CONTAINER SUITABLE IN SIZE TO CONTAIN ALL WASTE MATERIAL SHALL BE PROVIDED DURING THE CONSTRUCTION.
- GRUBBING SHALL CONSIST OF REMOVING AND DISPOSING OF STUMPS, ROOTS LARGER THAN 2" IN DIAMETER, AND MATTED ROOTS. REMOVE TO A DEPTH OF
- NOT LESS THAN 18" BELOW THE ORIGINAL SURFACE LEVEL OF THE GROUND. THE CONTRACTOR IS TO PREPARE THE SITE IN ACCORDANCE WITH THE SOILS REPORT (UNIVERSAL ENGINEERING SCIENCES, INC.), COPIES OF WHICH ARE
- AVAILABLE THROUGH THE OWNER OR SOILS TESTING COMPANY DIRECTLY. 13. POSITIVE DRAINAGE FACILITIES SHALL BE ESTABLISHED PRIOR TO THE CONSTRUCTION OF ANY IMPERVIOUS SURFACES AND DRAINAGE SHALL BE
- MAINTAINED DURING THE CONSTRUCTION PROCESS. THE DRAINAGE PATTERNS SHALL NOT BE ALTERED UNLESS DENOTED ON THE CONTRACT DOCUMENTS.
- CONTRACTOR MUST ENSURE ALL SOILS SLOPE AWAY FROM THE BUILDING AT A MINIMUM OF  $\frac{1}{4}$ " OVER 10 FEET. SOD OR GROUND COVER SHALL NOT BE PLACED EVENLY WITH THE FINISHED FLOOR ELEVATION.
- THE CONTRACTOR SHALL PERFORM HIS OWN INVESTIGATIONS AND CALCULATIONS AS NECESSARY TO ASSURE HIMSELF OF EARTHWORK QUANTITIES. THERE
- IS NO IMPLICATION THAT EARTHWORK BALANCES AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY IMPORT FILL NEEDED. EXCESS FILL MATERIALS SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.
- THE CONTRACTOR SHALL RECOGNIZE AND ABIDE BY ALL OSHA EXCAVATION SAFETY STANDARDS, INCLUDING THE FLORIDA TRENCH SAFETY ACT (FS 553.60-553.64). ANY MATERIAL, CONSTRUCTION METHODS, OR MATERIAL COST TO COMPLY WITH THESE LAWS SHALL BE INCIDENTAL TO THE CONTRACT. DURING THE EXCAVATION/TRENCHING PROCESS IF GROUNDWATER IS ENCOUNTERED, THE CONTRACTOR SHALL FOLLOW THE DEWATERING NOTES HERE
- ROUGH EXCAVATE AND GRADE ANY PROPOSED STORMWATER PONDS AT THE START OF SITE GRADING ACTIVITIES. SITE RUNOFF SHALL BE DIRECTED TO THE PONDS TO MINIMIZE RUNOFF TO OFFSITE AREAS.
- POND CONSTRUCTION SHALL RESULT IN THE FINISHED POND HAVING SIDE SLOPES AND DIMENSIONS THAT ARE IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THAT THESE REQUIREMENTS HAVE BEEN MET. IF THE CONSTRUCTED SIDE SLOPES ARE STEEPER THAN THE REQUIRED SIDE SLOPES, OR THE POND VOLUME IS NOT WITHIN THREE (3) PERCENT OF THE DESIGN VOLUME, THE CONTRACTOR
- MAY BE REQUIRED TO MAKE CORRECTIONS TO THE POND AT NO ADDITIONAL COST TO THE OWNER. IT IS INTENDED THAT PREVIOUSLY EXCAVATED MATERIALS CONFORMING TO THE FOLLOWING REQUIREMENTS BE UTILIZED WHEREVER POSSIBLE.
- A. ACCEPTABLE MATERIALS: AASHTO M145 CLASSIFICATION A-1, A-3, A-2-4, A-2-6; ASTM D2487 CLASSIFICATION GW, GP, GM, SM, SW, SP; UNLESS OTHERWISE DISAPPROVED WITHIN THE GEOTECHNICAL REPORT OR BY THE GEOTECHNICAL ENGINEER. NO MORE THAN 12% OF ACCEPTABLE MATERIALS SHALL PASS THE NUMBER 200 SIEVE.
- B. UNACCEPTABLE MATERIALS: AASHTO M145 CLASSIFICATION A-2-5, A-2-7, A-4, A-5, A-6, A-7, A-8; ASTM D2487 CLASSIFICATION GC, SC, ML, MH, CL, CH, OL, OH, PT; UNLESS OTHERWISE APPROVED WITHIN GEOTECHNICAL REPORT OR BY THE GEOTECHNICAL ENGINEER. PROVIDE BARRIERS, WARNING LIGHTS AND OTHER PROTECTIVE DEVICES AT ALL EXCAVATIONS.
- SIDEWALKS, ROADS, STREETS, AND PAVEMENTS SHALL NOT BE BLOCKED OR OBSTRUCTED BY EXCAVATED MATERIALS, EXCEPT AS AUTHORIZED BY THE ENGINEER, IN WHICH CASE ADEQUATE TEMPORARY PROVISIONS MUST BE MADE FOR SATISFACTORY TEMPORARY PASSAGE OF PEDESTRIANS, AND VEHICLES. MINIMIZE INCONVENIENCE TO PUBLIC TRAVEL OR TO TENANTS OCCUPYING ADJOINING PROPERTY.
- FURNISH, INSTALL, AND MAINTAIN, WITHOUT ADDITIONAL COMPENSATION, SHEETING, BRACING, AND SHORING SUPPORT REQUIRED TO KEEP EXCAVATIONS WITHIN THE PROPERTY OR EASEMENTS PROVIDED, TO SUPPORT THE SIDES OF THE EXCAVATION, AND TO PREVENT ANY MOVEMENT WHICH MAY DAMAGE ADJACENT PAVEMENTS OR STRUCTURES, DAMAGE OR DELAY THE WORK, OR ENDANGER LIFE AND HEALTH. VOIDS OUTSIDE THE SUPPORTS SHALL BE
- IMMEDIATELY FILLED AND COMPACTED. SHEETING, SHORING, AND BRACING USED FOR THE SUPPORT OF EXCAVATIONS OVER 20 FEET DEEP SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED BY THE STATE OF FLORIDA. THIS WILL BE PROVIDED FOR AT THE CONTRACTORS EXPENSE AND THE FINAL DESIGN SHALL BE PROVIDED TO THE SITE ENGINEER FOR RECORD.
- ALL EXCAVATIONS SHALL BE MADE BY OPEN CUT UNLESS OTHERWISE INDICATED. SLOPE SIDES OF TRENCHES IN ACCORDANCE WITH OSHA REQUIREMENTS
- AND THE RECOMMENDATIONS CONTAINED WITHIN THE PROJECT GEOTECHNICAL REPORT. EXCAVATE TRENCHES TO DEPTH INDICATED OR REQUIRED FOR INDICATED FLOW LINES AND INVERT ELEVATIONS. OVER EXCAVATE TRENCHES A MINIMUM OF
- 2 FEET WHERE EXCAVATIONS OCCUR WITHIN UNSUITABLE SOILS, AND REPLACE OVER EXCAVATED MATERIAL WITH SUITABLE SOILS. EXCEPT AS OTHERWISE INDICATED, EXCAVATE FOR PRESSURE PIPING SO TOP OF PIPING IS MINIMUM 3 FEET BELOW FINISHED GRADE.
- TRENCH BOTTOMS AND THE BOTTOMS OF ALL STRUCTURES SHALL BE KEPT DRY, COMPACTED, AND STABLE TO A DEPTH TWO FEET BELOW THE BOTTOM OF THE TRENCH OR STRUCTURE.
- 4. ALL BEDDING, FILL, AND BACKFILL MATERIAL SHALL BE SUITABLE SOILS OR FLOWABLE FILL. WHERE TRENCH OR EXCAVATION IS WITHIN THE INFLUENCE AREA OF ROADWAYS, STRUCTURES, FOUNDATIONS, OR SLABS, PLACE BACKFILL IN LAYERS OF 8 INCH LOOSE DEPTH. IN ALL OTHER AREAS, PLACE FILL AND
- IF SOLVENT CONTAMINATION IS FOUND VIA AN EXCAVATION ACTIVITY OR IN GENERAL, THE CONTRACTOR SHALL BE STOPPED AND THE PROPER AUTHORITIES NOTIFIED. WITH APPROVAL OF THE GOVERNING AGENCY, DUCTILE IRON PIPE, FITTINGS AND SOLVENT RESISTANT GASKET MATERIAL SUCH AS FLUOROCARBON SHALL BE USED IN THE CONTAMINATED AREA. THE DUCTILE IRON PIPE SHALL EXTEND AT LEAST 100 FEET BEYOND ANY SOLVENT DISCOVERED. ANY CONTAMINATED SOIL THAT IS EXCAVATED SHALL BE PLACED ON AN IMPERMEABLE MAT AND COVERED WITH A WATERPROOF COVERING. THE PROPER AUTHORITIES WILL BE NOTIFIED AND THE CONTAMINATED SOILS HELD FOR PROPER DISPOSAL.

# 'ESTING AND INSPECTION REQUIREMENTS (TRENCHING. EXCAVATION. AND FIL

- ALL SITE WORK CONSTRUCTION TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH THE PROJECTS GEOTECHNICAL REPORT AND/OR THE TESTING PARAMETERS OF THE LOCAL MUNICIPALITY/AGENCY HAVING JURISDICTION OVER THE SITE WORK. THE MORE STRINGENT REQUIREMENTS SHALL APPLY. MINIMUM DENSITY REQUIREMENT (ASTM D1557 OR AASHTO T180): BACKFILL AND FILL UNDER AND WITHIN THE INFLUENCE AREA OF ROADWAYS, STRUCTURES, SLABS. FOUNDATIONS = 98 PERCENT: BACKFILL AND FILL PLACED WITHIN PUBLIC ROAD RIGHT-OF-WAY AND UTILITY EASEMENTS = 95 PERCENT: BACKFILL AND FILL PLACED WITHIN POND AND ROAD EMBANKMENT = 95 PERCENT; BACKFILL AND FILL PLACED IN ALL OTHER AREAS = 90 PERCENT
- FIELD DENSITY TESTING FREQUENCIES: A) ONE TEST FOR EACH 10.000 SQUARE FEET OR FRACTION THEREOF PER LIFT OF GENERAL BACKFILLING. MINIMUM 2 TESTS EACH LAYER: B) ONE TEST FOR EACH 100 SQUARE FEET OR FRACTION THEREOF OF BACKFILL AROUND AND UNDER STRUCTURES: C) ONE TEST FOR EACH 300 LINEAL FEET OR FRACTION THEREOF PER LIFT OF GENERAL BACKFILLING IN THE PIPELINE TRENCH; D) ONE TEST PER LIFT PER EACH CHANGE IN TYPE OF FILL; E) ONE TEST PER 1000 SQUARE FEET OF PAVEMENT SUBGRADE, MINIMUM OF 2 TESTS.

# DRAINAGE SYSTEM NOTES:

- FDOT STANDARD INDEXES REFER TO THE 2019-2020 EDITION OF F.D.O.T. "ROADWAY AND TRAFFIC DESIGN STANDARDS".
- ALL STORM PIPING LOCATED ON PROPERTY AND NOT IN A DEDICATED EASEMENT SHALL BE INSTALLED PER THE FLORIDA BUILDING CODE PLUMBING. PIPE LENGTHS SHOWN ARE APPROXIMATE AND TO CENTER OF DRAINAGE STRUCTURES, WITH THE EXCEPTION OF MITERED END AND FLARED END SECTIONS
- WHICH ARE NOT INCLUDED IN LENGTHS. MINIMUM COVER OVER THE DRAINAGE PIPE, INCLUDING COVER OVER THE BELL OF THE PIPE WHERE APPLICABLE, SHALL COMPLY WITH CURRENT FDOT STANDARDS. ANY DEVIATION FROM THE PIPE COVER CRITERIA SHOULD BE DISCUSSED WITH THE ENGINEER.
- RCP STORM SEWER PIPE SHALL BE REINFORCED CONCRETE CLASS III (ASTM C-76) UNLESS OTHERWISE INDICATED ON THE CONSTRUCTION DOCUMENTS. ROUND CONCRETE PIPE SHALL COMPLY WITH ASTM C76. ELLIPTICAL CONCRETE PIPE SHALL COMPLY WITH ASTM C507. PIPE JOINTS SHALL COMPLY WITH ASTM C443 AND CURRENT FDOT SPECIFICATIONS, AND RUBBER GASKETS SHALL COMPLY WITH CURRENT FDOT SPECIFICATIONS.
- RCP PIPE SHALL NOT BE SHIPPED FROM MANUFACTURER UNTIL THE COMPRESSIVE STRENGTH OF THE PIPE HAS REACHED 4000 PSI AND A MINIMUM OF 5 DAYS HAVE PASSED SINCE THE MANUFACTURING OR REPAIR OF THE PIPE HAS BEEN COMPLETED.
- CORRUGATED POLYETHYLENE PIPE AND FITTINGS 4 INCH THROUGH 10 INCH DIAMETER SHALL COMPLY WITH AASHTO M252, TYPE S. PIPE 12 INCH THROUGH 48 INCH DIAMETER SHALL COMPLY WITH AASHTO M294, TYPE S, AND ASTM F2306. PIPE 54 INCH THROUGH 60 INCH DIAMETER SHALL COMPLY WITH FDOT SPECIFICATION SECTION 948 (CLASS II PIPE) AND SHALL COMPLY WITH AASHTO M294. BELL JOINTS FOR 4 INCH THROUGH 10 INCH DIAMETER PIPE SHALL BE PUSH-ON SLEEVE. BELL JOINTS FOR 12 INCH THROUGH 60 INCH DIAMETER PIPE SHALL BE INTEGRALLY FORMED ON PIPE. PIPE JOINTS SHALL BE WATERTIGHT PER ASTM 03212. GASKETS SHALL BE INSTALLED BY PIPE MANUFACTURER AND SHALL COMPLY WITH ASTM F477.
- PREVENT DISPLACEMENT. MINIMUM COVER OVER POLYETHYLENE PIPE SHALL BE 36 INCHES OR ONE PIPE DIAMETER. WHERE THE BEDDING IS MANUFACTURED AGGREGATES CLASS 1A OR 1B AS DEFINED IN ASTM 02321 THEN THE MINIMUM COVER SHALL BE 30 INCHES OR ONE PIPE DIAMETER, WHICHEVER IS GREATER. UNDERDRAIN PIPE SHALL BE PERFORATED POLYVINYL CHLORIDE PIPE IN ACCORDANCE WITH ASTM F758. FILTER FABRIC UNDERDRAIN SOCK SHALL BE TYPE
- D-3 IN ACCORDANCE WITH CURRENT FDOT INDEX SPECIFICATIONS. UNDERDRAINS SHALL BE INSTALLED IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 440 AND CLEANOUTS SHALL BE INSTALLED AS SHOWN ON CONSTRUCTION DOCUMENTS.
- RIP-RAP SHALL MEET THE REQUIREMENTS OF FDOT SPECIFICATION SECTION 530. GEOTEXTILE FABRIC AND TURF MAT SHALL MEET THE REQUIREMENTS OF CURRENT FDOT SPECIFICATIONS.
- STORMWATER ROOF DRAIN LOCATIONS ARE BASED ON PRELIMINARY ARCHITECTURAL PLANS. CONTRACTOR IS RESPONSIBLE TO AND FOR VERIFYING LOCATIONS OF SAME BASED ON FINAL ARCHITECTURAL PLANS. ALL PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC. FILTER FABRIC SHALL BE IN ACCORDANCE WITH CURRENT FDOT SPECIFICATIONS, TYPE D-3, A.O.S.
- 70-100. INSTALL IN ACCORDANCE WITH CURRENT FDOT SPECIFICATIONS. PROVIDE MINIMUM 12" OVERLAP.
- ALL STORM STRUCTURES ARE TO BE PLACED ON A 12 INCH BED OF CRUSHED STONE OR EQUAL AS APPROVED BY THE GOVERNING JURISDICTION AND OR ENTITY AND BE FULLY ENVELOPED WITH FILTER FABRIC. ALL DRAINAGE STRUCTURES SHALL BE IN ACCORDANCE WITH CURRENT F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS UNLESS OTHERWISE NOTED ON
- 16. ALL DRAINAGE STRUCTURE GRATES AND COVERS SHALL BE TRAFFIC RATED FOR H-20 LOADING UNLESS SPECIFIED OTHERWISE.
- ALL NEWLY CONSTRUCTED DRY STROMWATER FACILITIES (I.E.
- SWALES, PONDS, ETC.) SHOWN MUST HAVE THE TOP 6 INCHES
- SCARIFIED AFTER FINAL GRADING HAS TAKEN PLACE, BUT PRIOR TO
- SEEDING OR FINAL SODDING.





COMMON OAK ENGINEERING 09 EDGEWATER DRIVE, SUITE ORLANDO, FL. 32804 (407)951-5915

TIFICATE OF AUTHORIZATION: 326

POLYETHYLENE PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321. THE PIPE SHALL BE BACKFILLED AND COMPACTED EVENLY ON EACH SIDE TO

ENGINEER'S NAME & PE#

JEREMY R. ANDERSON, P. P.E. LICENSE NO. 71636

ROJECT # 221.056 12/15/2021  $\bigcirc$ N.T.S.

- CONSTRUCTION OF THE STORMWATER MANAGEMENT SYSTEM MUST BE COMPLETE AND ALL DISTURBED AREAS STABILIZED IN ACCORDANCE WITH THE PERMITTED PLANS AND CONDITIONS PRIOR TO ANY OF THE FOLLOWING: ISSUANCE OF THE FIRST CERTIFICATE OF OCCUPANCY; INITIATION OF INTENDED USE OF THE INFRASTRUCTURE; OR TRANSFER OF RESPONSIBILITY FOR MAINTENANCE OF THE SYSTEM TO A LOCAL GOVERNMENT OR OTHER RESPONSIBLE
- 19. ALL STORM WATER SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RESEEDED AS NEEDED. SEEDED AREAS WILL NOT BE ACCEPTED BY ENGINEER FOR CLEARANCE UNLESS A 1 INCH STAND HAS BEEN ESTABLISHED. IF THE ACCEPTABLE STAND IS NOT MEET THEN THE AREA DESIGNATED FOR SEED WILL BE SODED AT NO ADDITIONAL COST TO THE OWNER.
- PRIOR TO INSPECTIONS AND TESTING ALL INSTALLED LINES AND STRUCTURES MUST BE CLEANED.

RATES ARE WITHIN DESIGN PARAMETERS REFER TO AS-BUILT REQUIREMENT HEREIN.

# TESTING AND INSPECTION REQUIREMENTS (DRAINAGE):

- THE STORM DRAINAGE PIPING AND STORM WATER POND SYSTEM SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL. CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION.
- THE ENGINEER RESERVES THE RIGHT TO HAVE ALL DRY STORM WATER FEATURES TESTED BY AN APPROVED SOILS ENGINEER TO ENSURE INFILTRATION
- DENSITIES AT UTILITY AND STORM STRUCTURES (INLET/MANHOLES WITHIN ROADWAY TO 3' IN BACK OF CURB) SHALL BE 98% WITHIN PAVEMENT AREAS, AND A DENSITY OF 95% FOR STRUCTURES OUTSIDE PAVED AREAS PER AASHT0-180 (MODIFIED) IS REQUIRED.
- THE CONTRACTOR SHALL MAINTAIN AND PROTECT FROM MUD, DIRT, DEBRIS, ETC. THE STORM DRAINAGE SYSTEM UNTIL FINAL ACCEPTANCE OF THE PROJECT. THE STORM SYSTEM WILL BE REINSPECTED BY THE OWNERS ENGINEER PRIOR TO APPROVAL FOR CERTIFICATE OF OCCUPANCY PURPOSES. THE CONTRACTOR MAY BE REQUIRED TO RECLEAN PIPES AND INLETS FOR THESE PURPOSES.
- AS REQUIRED BY THE OWNER ALL STORM PIPE SHALL BE SUBJECTED TO LEAKAGE TESTING. WHEN THE GROUNDWATER LEVEL IS ABOVE THE TOP OF THE PIPE, AN INFILTRATION TEST SHALL BE PERFORMED BY SEALING OFF A LENGTH OF PIPE AND MEASURING THE DEPTH OF FLOW OVER A MEASURING WEIR, OR BY PUMPING THE INFILTRATED WATER INTO CONTAINERS FOR MEASUREMENT. TESTS SHALL BE CONDUCTED FOR A MINIMUM OF FOUR HOURS. INFILTRATION LEAKAGE SHALL NOT EXCEED 150 GALLONS PER 24 HOURS, PER INCH DIAMETER, PER MILE OF PIPE. WHEN THE GROUNDWATER LEVEL IS BELOW THE TOP OF THE PIPE, THE PIPE SHALL BE TESTED FOR LEAKAGE BY EXFILTRATION. EXFILTRATION LEAKAGE TEST SHALL CONSIST OF ISOLATING THE PARTICULAR SECTION, FILLING IT WITH WATER TO A POINT 4 FEET ABOVE THE TOP OF THE PIPE AT THE UPPER MANHOLE OR INLET, AND ALLOWING IT TO STAND FOR NO LESS THAN FOUR HOURS. THE SECTION SHALL THEN BE REFILLED WITH WATER UP TO THE ORIGINAL LEVEL AND AFTER TWO HOURS THE DROP IN WATER SURFACE SHALL BE MEASURED. THE COMPUTED LEAKAGE SHALL NOT EXCEED 150 GALLONS PER INCH DIAMETER, PER 24 HOURS, PER MILE OF PIPE.

### GAS, ELECTRICAL, TELEPHONE, CABLE TV AND UTILITIES:

- IGINEER IS NOT RESPONSIBLE FOR THE DESIGN OF GAS, ELECTRIC, TELEPHONE, FIBER OR CABLE TV UTILITIES, AND ANY INFORMATION PERTAINING TO THE DESIGN OR LOCATION OF THOSE UTILITIES IS SHOWN ON THE CIVIL DRAWINGS FOR GENERAL REFERENCE ONLY. REFER TO ELECTRICAL PLANS FOR ACTUAL LOCATIONS OF THESE UTILITIES AND FOR SPECIFIC NOTES AND INFORMATION.
- MATERIALS INTERFERING WITH CONSTRUCTION AND ABANDONED UTILITY LINES, PIPES, STRUCTURES, AND OTHER SUBTERRANEAN OBJECTS SHALL BE REMOVED. ALL MATERIALS NOT CLAIMED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A LEGAL
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES AND COORDINATING WITH THE APPROPRIATE UTILITY AUTHORITIES BEFORE CONSTRUCTION COMMENCES. CONTRACTOR MUST CALL SUNSHINE STATE ONE CALL (OR PRIVATE LOCATER) FOR UTILITY LOCATES 48 HOURS PRIOR TO CONSTRUCTION AT 1-800-432-4770. ANY UTILITY CONFLICTS SHALL BE REPORTED TO THE ENGINEER AND RESOLVED PRIOR TO
- INSTALL ALL REQUIRED CONDUIT TO THE PROPERTY PER LINE FOR APPLICABLE UTILITY SERVICE. COORDINATE WITH UTILITY PROVIDER, ELECTRICAL ENGINEER AND ARCHITECTURAL PLANS ON FINAL SIZE AND LOCATION OF CONDUIT.

# GOVERNING JURISDICTIONAL PUBLIC WORKS AND/OR UTILITY STANDARDS ARE MINIMUM STANDARDS FOR PUBLIC POTABLE WATER, RECLAIMED WATER AND/OR SANITARY SEWER CONSTRUCTION. IF THERE IS A CONFLICT BETWEEN THOSE REQUIREMENTS AND THOSE LISTED BELOW THE MORE STRINGENT REQUIREMENTS

- SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS SHOULD ALWAYS CROSS UNDERNEATH WATER MAINS. INSTALLATIONS OF SANITARY SEWERS, FORCE MAINS AND STORM SEWERS, AT CROSSINGS OF WATER MAINS, SHALL BE PERFORMED SO AS TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE, WHENEVER POSSIBLE. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS AND WATER JOINTS SHALL BE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN 10 FEET BETWEEN ANY TWO JOINTS. WHERE SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, BOTH THE SEWER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP), AT THE CROSSING. (DIP IS NOT REQUIRED FOR STORM SEWERS IF IT IS NOT AVAILABLE IN THE SIZE PROPOSED.). SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO (2) JOINTS IN LIEU OF DIP, THE SANITARY SEWER MAY BE PLACED IN A SLEEVE FOR 20 FEET CENTERED ON THE POINT OF CROSSING. ALI JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE LEAK FREE, AND MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT THE CROSSING. WHERE THERE IS NO ALTERNATIVE TO SEWER PIPES CROSSING OVER WATER MAINS. THE CRITERIA FOR MINIMUM SEPARATION OF 18 INCHES BETWEEN LINES, AND 10 FEET BETWEEN JOINTS CENTERED AT THE POINT OF CROSSING SHALL BE REQUIRED. THE WATER MAIN SHALL BE PLACED IN A SLEEVE FOR 20 FEET CENTERED ON THE POINT OF CROSSING. ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN. CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (I.E... PIPES CENTERED ON THE CROSSING). WHERE A PROPOSED PIPE CONFLICTS WITH AN EXISTING PIPE, THE PROPOSED PIPE SHALL BE CONSTRUCTED OF DIP, AND THE CROSSING SHALL BE ARRANGED SO AS TO SATISFY THE REQUIREMENTS IDENTIFIED ABOVE.
- WHEN THE RECLAIMED WATER LINE IS TRANSPORTING WATER FOR PUBLIC ACCESS IRRIGATION:
- MAXIMUM OBTAINABLE SEPARATION OF RECLAIMED WATER LINES AND DOMESTIC WATER LINES SHALL BE PRACTICED. A MINIMUM HORIZONTAL 8. SEPARATION OF FIVE FEET (CENTER TO CENTER) OR THREE FEET (OUTSIDE TO OUTSIDE) SHALL BE MAINTAINED BETWEEN RECLAIMED WATER LINES AND EITHER POTABLE WATER MAINS OR SEWAGE COLLECTION LINES. AN 18 INCH VERTICAL SEPARATION SHALL BE MAINTAINED AT CROSSINGS.

# WHEN THE RECLAIMED WATER LINE IS TRANSPORTING WATER FOR NON-PUBLIC ACCESS IRRIGATION:

- THE RECLAIMED WATER MAIN SHALL BE TREATED LIKE A SANITARY SEWER. AND A 10-FT. HORIZONTAL AND 18 INCH VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN THE RECLAIMED WATER MAIN AND ALL EXISTING OR PROPOSED POTABLE WATER MAINS. NO MINIMUM SEPARATION IS REQUIRED BETWEEN THE RECLAIMED WATER MAIN AND SANITARY SEWERS, OTHER THAN NECESSARY TO ENSURE STRUCTURAL INTEGRITY AND PROTECTION OF THE LINES THEMSELVES
- A MINIMUM 10 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN (INCLUDING FORCE MAINS) AND EXISTING OR PROPOSED WATER MAINS. IN PARALLEL INSTALLATIONS, WHENEVER POSSIBLE. THE DISTANCE FOR SEPARATION SHALL BE MEASURED EDGE TO EDGE. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE INSTALLED IN A SEPARATE TRENCH, OR IN AN UNDISTURBED EARTH SHELF, LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN, AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER LINE, AND WATER AND SEWER JOINTS SHALL BE STAGGERED. WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES. IN PARALLEL INSTALLATIONS. THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SEWER OR FORCE MAIN SHALL BE CONSTRUCTED OF DIP (IF AVAILABLE IN THE SIZE PROPOSED), WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE LOCATED ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (i.e., STAGGERED JOINTS).
- ALL DIP PIPE SHALL BE MW CLASS 50 OR PRESSURE CLASS 250, REFER TO NOTE #9 BELOW FOR ADDITIONAL DIP SPECIFICATIONS, ADEQUATE MEASURES AGAINST CORROSION SHALL BE UTILIZED.
- ALL UTILITIES SHALL BE INSTALLED WITH COMPLIANCE TO GOVERNING JURISDICTION WATER DISTRICT STANDARD CONSTRUCTION DETAILS AND LAND DEVELOPMENT CODE.
- ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 36 INCHES OF COVER WHERE POSSIBLE. 48" MAXIMUM COVER UNLESS SPECIFIED OTHERWISE ON THE CONSTRUCTION DOCUMENTS.
- ALL WATER SERVICE LINES, VALVES AND METERS SHALL BE INSTALLED TO COMPLY WITH APPLICABLE MUNICIPALITY/AGENCY DEPARTMENT STANDARDS
- AND SPECIFICATIONS. NO LEAKAGE IS ALLOWED IN EXPOSED PIPING, BURIED PIPING WITH FLANGED, THREADED, OR WELDED JOINTS OR BURIED NON POTABLE PIPING IN CONFLICT WITH POTABLE WATER LINES. TESTED SECTIONS OF BURIED PIPING WITH SLIP-TYPE OR MECHANICAL JOINTS WILL NOT BE ACCEPTED IF IT HAS A LEAKAGE RATE IN EXCESS OF THAT RATE DETERMINED BY THE FORMULA LISTED HEREIN THE WATER TESTING SECTION.
- THRUST BLOCKING SHALL BE PROVIDED AT ALL FITTINGS AND HYDRANTS, IN ACCORDANCE WITH APPLICABLE UTILITY DEPT. SPECIFICATIONS.
- ALL DUCTILE IRON PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA C151/A21.51. PIPE SHALL BE FURNISHED IN 18 OR 20 FOOT SECTIONS, PIPE THICKNESS SHALL BE CLASS 50, UNLESS OTHERWISE SPECIFIED.
- ALL PIPE, PIPE FITTINGS, PIPE JOINT PACKING AND JOINTING MATERIALS, VALVES, FIRE HYDRANTS, AND METERS INSTALLED UNDER THIS PROJECT SHALL CONFORM TO APPLICABLE AWWA STANDARDS.
- 11. ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT SHALL BE COLOR CODED OR MARKED IN ACCORDANCE WITH FDEP SUBPARAGRAPH
- 62-555.320(21) (b) 3, F.A.C., USING BLUE AS A PREDOMINATE COLOR.
- ALL WATER AND REUSE MAINS SHALL BE ALLOWED TO DEFLECT PER MANUFACTURERS SPECIFICATIONS.

18. ALL PVC WATER MAINS 2" OR LESS SHALL BE SDR21 (200 PSI) UNLESS OTHERWISE NOTED.

- 13. ALL ON-SITE FIRE HYDRANTS SHALL BE PAINTED WITH HIGH GRADE ENAMEL FEDERAL, COLOR SHALL COMPLY WITH APPLICABLE UTILITY HAVING JURISDICTION, AND BE OSHA APPROVED, AND MUST BE LOCATED A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT OR BACK OF CURB. OTHERWISE BOLLARDS WILL BE REQUIRED FOR PROTECTION. ALL FIRE HYDRANTS SHALL COMPLY WITH AWWA STANDARDS C502-80 THEREOF. CONTRACTOR TO INSTALL TEMPORARY BLOWOFFS, AT THE END(S) OF PROPOSED WATER MAINS AND SERVICE LATERALS TO BUILDING(S) TO ASSURE ADEQUATE FLUSHING AND DISINFECTION/CHLORINATION.
- ALL WATER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH AWWA MANUAL M23, CONCERNING HYDROSTATIC TESTING OF PVC PIPING. OFF-SITE UTILITIES HYDROSTATIC TESTING TO BE WITNESSED BY A GOVERNING JURISDICTIONAL WATER DISTRICT DEPARTMENT INSPECTOR.
- ALL WATER MAINS SHALL BE STERILIZED IN ACCORDANCE WITH THE APPLICABLE SECTION OF THE LATEST AWWA SPECIFICATION C651 AND GOVERNING JURISDICTIONAL WATER DISTRICT UTILITIES OPERATION MANUAL.
- 16. ALL PVC WATER MAIN, 4" TO 12" DIAMETER PIPING, SHALL CONFORM TO AWWA C900 (DR 18) STANDARD SPECIFICATIONS, PRESSURE CLASS 150 PSI. ALL PVC
- WATER MAIN PIPING LESS THAN 4" DIAMETER SHALL BE SCHEDULE 80, PRESSURE CLASS 200 PSI. ALL PVC WATER MAINS LESS THAN 4 INCHES SHALL BE IN ACCORDANCE WITH ASTM (SCHEDULE 40, 80, 120) OR ASTM 2241 SDR 21 (200 PSI). THREADED PIPE
- AND FITTINGS SHALL BE SCHEDULE 80 AND CONFORM TO ASTM D2464. UNTHREADED PIPE AND FITTINGS SHALL BE SCHEDULE 40 WITH SOLVENT-CEMENTED JOINTS. CEMENTED JOINTS AND FITTINGS SHALL COMPLY WITH ASTM D2466 AND D2855.

OF POLYETHYLENE. IT SHALL HAVE IMPRINTED. IN PERMANENT BLACK INK WITH ONE INCH TALL LETTERS. "CAUTION: WATER LINE BURIED BELOW". ON BLUE BACKGROUND. THE TAPE SHALL BE CONTINUOUS BETWEEN VALVES, AND SECURED TO EACH VALVE. WHERE OTHER LINES OR SERVICE LINES JOIN THE WATER MAIN THE TAPE USED FOR DETECTION OF THESE LINES SHALL BE SECURED TO THE MAIN LINE TAPE.

19. POLYETHYLENE PIPE AND TUBING USED FOR SERVICE LINES ½" - 3" SHALL BE POLYETHYLENE IN ACCORDANCE WITH AWWA C901, STANDARD CODE

SAME SDR OR LESS. PROVIDE ADAPTERS AS REQUIRED TO JOIN PE PIPE TO PIPE, FITTINGS AND EQUIPMENT OF OTHER MATERIALS.

DESIGNATION PE 4710, SDR 9 (OUTSIDE DIAMETER BASED DIMENSION RATIO), 250 PSI. PIPE SHALL BE COLOR CODED BLUE (POTABLE WATER) OR PURPLE

(RECLAIMED WATER). PIPE AND FITTINGS SHALL BE NSF APPROVED FOR THE USAGE TO WHICH THEY ARE TO BE APPLIED. JOINTS IN SDR-PR PE PIPE SHALL

BE BUTT HEAT FUSION OR SOCKET HEAT FUSION TYPE. FITTINGS SHALL BE MANUFACTURED OF THE SAME MATERIAL AS THE PIPE AND SHALL BE OF THE

LINES. THE TAPE SHALL BE AT LEAST 5-1/2 MILS THICK, 2 INCH MINIMUM WIDTH, AND MADE WITH AN ALUMINUM MATERIAL SANDWICHED BETWEEN 2 LAYERS

20. ALL PVC WATER MAINS SHALL HAVE A SUITABLE MAGNETIC LOCATOR TAPE BURIED OVER THE WATER MAIN, BURIED NO LESS THAN 18 INCHES ABOVE MAIN

- 21. ALL WATER MAIN INSTALLATIONS SHALL COMPLY WITH COLOR CODING REQUIREMENTS OF CHAPTER 62-555.320, FAC.
- 22. DISINFECT ALL POTABLE WATER LINES, FIRE LINES, VALVES, FITTINGS, AND HYDRANTS. ALL DISINFECTION WORK SHALL BE ACCEPTABLE TO THE STATE HEALTH AUTHORITY. IF ANY REQUIREMENTS OF THIS SECTION ARE IN CONFLICT WITH REQUIREMENTS OF THE AUTHORITY FOR DISINFECTION, THOSE OF THE AUTHORITY SHALL GOVERN. THE WATER MAIN DISINFECTION AND BACTERIOLOGICAL SAMPLING AND METHODS OF DISINFECTION FOR ALL WATER CONTAINMENT DEVICES AND PIPING SYSTEMS SHALL CONFORM TO AWWA C651.

# TESTING AND INSPECTION REQUIREMENTS (WATER)

- ALL COMPONENTS OF THE WATER SYSTEM, INCLUDING FITTINGS, HYDRANTS, CONNECTIONS, AND VALVES SHALL REMAIN UNCOVERED UNTIL PROPERLY PRESSURE TESTED AND ACCEPTED BY THE OWNER'S ENGINEER, OR CITY INSPECTOR. PRESSURE TESTING OF WATER MAINS SHALL BE FOR A PERIOD OF FOUR (4) HOURS. CONTRACTOR TO NOTIFY THE OWNER'S ENGINEER AND APPLICABLE AGENCY INSPECTORS 48 HOURS IN ADVANCE OF PERFORMING
- TESTED SECTIONS OF BURIED PIPING WITH SLIP-TYPE OR MECHANICAL JOINTS WILL NOT BE ACCEPTED IF IT HAS A LEAKAGE RATE IN EXCESS OF THAT RATE DETERMINED BY THE FORMULA:

WHERE L = MAXIMUM PERMISSIBLE LEAKAGE RATE, IN GALLONS PER HOUR, THROUGHOUT THE ENTIRE LENGTH OF LINE BEING TESTED; S = LENGTH OF LINE TESTED (IN FEET); D = NOMINAL INTERNAL DIAMETER (IN INCHES) OF THE PIPE; AND P = THE SQUARE ROOT OF THE ACTUAL PRESSURE IN POUNDS PER SQUARE INCH GAUGE (PSIG) ON ALL JOINTS IN THE TESTED PORTION OF THE LINE. THIS ACTUAL PRESSURE SHALL BE DETERMINED BY FINDING THE DIFFERENCE BETWEEN THE AVERAGE ELEVATION OF ALL TESTED PIPE JOINTS AND THE ELEVATION OF THE PRESSURE GAUGE AND ADDING THE DIFFERENCE IN ELEVATION HEAD TO THE AUTHORIZED TEST PRESSURE.

- CONTRACTOR SHALL ARRANGE FOR CHLORINATION AND BACTERIOLOGICAL SAMPLING, AND OBTAIN CLEARANCE OF DOMESTIC AND FIRE LINE WATER SYSTEM(S). COPIES OF ALL BACTERIOLOGICAL TEST RESULTS ARE TO BE SUBMITTED TO THE OWNER'S ENGINEER, IMMEDIATELY UPON COMPLETION OF THE WATER SYSTEM, FOR CERTIFICATION PURPOSES.
- 4. THE SEQUENCE OF TESTING AND DISINFECTION SHALL BE AS FOLLOWS:
- A. CONDUCT PRESSURE AND LEAKAGE TESTING;
- B. PERFORM FLUSHING PER UTILITY REQUIREMENTS AND AWWA C651;
- C. DISINFECT THE WATER MAIN, INCLUDING VALVES AND FITTINGS; D. FLUSH AFTER DISINFECTION.
- E. CONDUCT BACTERIOLOGICAL SAMPLING (TWO (2) CONSECUTIVE DAYS OF PASSING RESULTS ARE REQUIRED)

PACKAGE SEWAGE TREATMENT FACILITIES AND PUBLIC WASTEWATER TREATMENT FACILITIES.

5. IF THE ABOVE TESTING REQUIREMENTS ARE IN CONFLICT WITH ANY LOCAL, STATE, OR FEDERAL AGENCY THE MORE STRINGENT REQUIREMENTS SHALL

#### **GENERAL FIRE PROTECTION NOTES:**

- FIRE LINES SHALL BE INSTALLED BY A CONTRACTOR, DULY LICENSED BY THE STATE OF FLORIDA FIRE MARSHALL'S OFFICE. CONTRACTOR TO VERIFY REQUIREMENTS PRIOR TO CONSTRUCTION OF THE FIRE PROTECTION SYSTEM.
- ALL FIRE PROTECTION SHALL MEET THE REQUIREMENTS OF THE APPLICABLE MUNICIPALITY OR COUNTY AND N.F.P.A 24 WHICH REGULATES THE CONSTRUCTION AND TESTING OF SUCH LINES.
- COMBUSTIBLE CONSTRUCTION CANNOT OCCUR UNTIL PROPER DOCUMENTATION HAS BEEN SUBMITTED TO THE LOCAL FIRE MARSHAL. DOCUMENTATION SHALL SHOW THAT HYDRANTS HAVE BEEN INSTALLED, TESTED, AND ARE IN PROPER WORKING ORDER.
- ALL FIRE LINE PIPING FROM POINT OF SERVICE AS DEFINED BY FS 633.021(16) SHALL BE C900 DR 14 AND HAVE A MINIMUM OF 36 INCHES OF COVER. THE FIRE
- LINE SHALL BE PRESSURE TESTED TO 200 PSI FOR A MINIMUM OF TWO HOURS, TESTED IN ACCORDANCE WITH NFPA 24-9-2. THE CONTRACTOR INSTALLING THE UNDERGROUND FIRE PROTECTION PIPING TO ONE FOOT ABOVE FINISHED GRADE SHALL HOLD A CLASS I, II, OR LEVEL V
- CERTIFICATION AS ISSUED BY THE STATE OF FLORIDA, AS REQUIRED BY FS 633.021(5) FIRE PROTECTION SYSTEM MAINS ON PRIVATE PROPERTY SHALL MEET THE REQUIREMENTS AND SHALL BEE INSTALLED PER N.F.P.A 24. ALL FIRE
- PROTECTION SPRINKLER SYSTEMS INSTALLED SHALL COMPLY WITH NFPA 13, AND SHALL BE MONITORED BY A COMPANY LISTED AS A CENTRAL STATION. HYDRANTS SHALL CONFORM TO AWWA C502 AND SHALL BE FURNISHED COMPLETE WITH WRENCH AND OTHER APPURTENANCES. MANUFACTURER'S
- CERTIFICATION OF COMPLIANCE WITH AWWA C502 AND TESTS LISTED THEREIN WILL BE REQUIRED. ALL HYDRANTS SHALL BE OF BREAKABLE TYPE, WITH THE BREAKABLE SECTION LOCATED SLIGHTLY ABOVE THE FINISH GROUND LINE. HYDRANTS SHALL CONTAIN TWO-TWO AND A HALF INCH (2-1/2") HOSE CONNECTIONS AND ONE-FOUR AND A HALF INCH (4-1/2") STEAMER CONNECTIONS WITH NATIONAL
- STANDARD FIRE HOSE COUPLING SCREW THREADS, FIVE AND ONE QUARTER INCH (5-1/4") VALVE OPENING, SIX INCH (6") DIAMETER MECHANICAL JOINT INLET, ONE AND ONE-HALF INCH (1-1/2") PENTAGON OPERATING NUT. THE HYDRANTS SHALL OPEN COUNTERCLOCKWISE. ALL HYDRANTS SHALL BE PAINTED PER N.F.P.A 291 OR IN ANOTHER APPROVED MANNER WITH THE FINISH PAINT BEING TWO COATS OF ENAMEL OR SPECIAL COATING TO COLOR AS REQUIRED BY THE LOCAL FIRE DEPARTMENT.
- 0. BLUE PAVEMENT REFLECTORS SHALL BE PLACED IN THE CENTERLINE OF THE DRIVING LANE DIRECTLY IN FRONT OF ALL FIRE HYDRANTS. THERE SHALL BE
- NO TREES, SHRUBS, OR LANDSCAPING PLANTED AROUND THE FIRE HYDRANTS OR IN AREAS DESIGNATED AS FIRE LANES. NEW OR RELOCATED FIRE HYDRANTS SHALL BE LOCATED SUCH THAT THE UNDERGROUND DRAIN (WEEP HOLE) IS AT LEAST: THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, RECLAIMED WATER MAIN, OR VACUUM TYPE SANITARY SEWER; SIX FEET FROM ANY EXISTING OR PROPOSED GRAVITY SANITARY SEWER AND WASTEWATER FORCE MAIN: AND TEN FEET FROM ANY ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM SUCH AS SEPTIC TANKS, DRAINFIELDS, AND GREASE TRAPS. ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS DO NOT INCLUDE
- THE ACCESS ROADS SHALL REMAIN CLEAR OF VEHICULAR OBSTRUCTIONS TO ALLOW ACCESS OF FIRE DEPARTMENT UNITS WHILE THE BUILDINGS ARE BEING CONSTRUCTED.

# TESTING AND INSPECTION REQUIREMENTS

- THE CONTRACTOR SHALL PROVIDE A POST-CONSTRUCTION FIRE FLOW TEST WITNESSED AND APPROVED BY THE ENGINEER AND THE UTILITY. HYDRANTS SHALL DELIVER A MINIMUM OF 1250 GPM WITH A RESIDUAL PRESSURE OF 20 PSI.
- APPLY HYDROSTATIC TEST PRESSURE OF 200 PSI (FIRE MAINS) FOR 10 MINUTES AND FOR SUCH ADDITIONAL PERIOD NECESSARY FOR THE ENGINEER TO COMPLETE THE INSPECTION OF THE LINE UNDER TEST. DO NOT EXCEED PIPE MANUFACTURER'S SUGGESTED TIME DURATION AT THE TEST PRESSURE. IF DEFECTS ARE NOTED, REPAIRS SHALL BE MADE AND THE TEST REPEATED UNTIL ALL PARTS OF THE LINE WITHSTAND THE TEST PRESSURE.
- APPLY LEAKAGE TEST PRESSURE OF 200 PSI (FIRE MAINS) MAINTAIN PRESSURE AT A MAXIMUM VARIATION OF 5% DURING THE ENTIRE LEAKAGE TEST. THE DURATION OF THE LEAKAGE TEST SHALL BE TWO HOURS MINIMUM, AND FOR SUCH ADDITIONAL TIME NECESSARY FOR THE ENGINEER TO COMPLETE INSPECTION OF THE SECTION OF LINE UNDER TEST. LEAKAGE MEASUREMENTS SHALL NOT BE STARTED UNTIL A CONSTANT TEST PRESSURE HAS BEEN ESTABLISHED. THE LINE LEAKAGE SHALL BE MEASURED BY MEANS OF A WATER METER INSTALLED ON THE SUPPLY SIDE OF THE PRESSURE PUMP.

# TRAFFIC CONTROL:

- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A MAINTENANCE OF TRAFFIC (M.O.T.) PLAN PRIOR TO CONSTRUCTION. THE M.O.T. PLAN SHALL SHOW ALL PROPOSED TRAFFIC CONTROL SIGNS, PAVEMENT MARKINGS, AND BARRICADES, AND SHALL DETAIL ALL PROPOSED CONSTRUCTION SEQUENCING. THE M.O.T. PLAN AND INSTALLED TRAFFIC CONTROL MEASURES SHALL BE APPROVED BY THE ENGINEER, OWNER, AND ROADWAY JURISDICTIONAL AGENCY PRIOR TO CONSTRUCTION. IN GENERAL, ROADWAY AND DRIVEWAY LANE CLOSURES ARE PROHIBITED DURING CONSTRUCTION UNLESS SPECIFICALLY DETAILED ON THESE PLANS. IN THE EVENT IT IS DETERMINED THAT ROADWAY AND DRIVEWAY LANE CLOSURES WILL BE ALLOWED, THE CLOSURES SHALL BE RESTRICTED TO THE HOURS BETWEEN 9:00 A.M. AND 4:00 P.M. UNLESS OTHERWISE AUTHORIZED IN THE APPROVED M.O.T
- THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY ALL APPROPRIATE AGENCIES (PARTIAL LISTED BELOW) PRIOR TO ANY LANE CLOSURES ON AN ARTERIAL OR COLLECTOR ROADWAY:
- A. GOVERNING PUBLIC WORKS
- B. SHERIFF'S OFFICE
- C. TRANSIT AUTHORITY
- D. SCHOOL TRANSPORTATION E. EMS & FIRE ADMINISTRATION
- ALL TRAFFIC CONTROL MEASURES SHALL BE IN ACCORDANCE WITH CURRENT FDOT SPECIFICATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL TRAFFIC CONTROL MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND MAINTAINED DURING CONSTRUCTION.
- INSPECT TRAFFIC CONTROL DEVICES ON A DAILY BASIS TO ENSURE PLACEMENT OF BARRICADES AND FUNCTION OF LIGHTS IS MAINTAINED THROUGHOUT CONSTRUCTION.
- CONTACT PROPERTY OWNERS AFFECTED BY CONSTRUCTION. COORDINATE TEMPORARY DRIVEWAY CLOSURES AND SEQUENCING. MAINTAIN ACCESS FOR ALL PROPERTY OWNERS DURING CONSTRUCTION.
- ADJUST TRAFFIC CONTROL DEVICES AS REQUIRED UNDER EMERGENCY CONDITIONS.
- THE CONTRACTOR IS EXPECTED TO COORDINATE ITS ACTIVITIES WITH OTHER CONTRACTORS WHO MAY BE WORKING IN THE IMMEDIATE VICINITY.
- WHEN WORK OCCURS WITHIN 15-FT OF ACTIVE ROAD TRAVEL LANES BUT NO CLOSER THAN 2-FT FROM THE EDGE OF PAVEMENT, SIGNAGE AND WARNING DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH CURRENT FDOT SPECIFICATIONS.
- TYPE I OR TYPE II BARRICADES AT 20-FT CENTERS SHALL BE PLACED AND MAINTAINED ALONG THE EDGE OF THE ROAD WHEREVER DROP-OFFS OR OTHER HAZARDS EXIST AND TO BLOCK ENTRANCE INTO COMPLETED OR PARTIALLY COMPLETED PAVEMENTS UNTIL SUCH PAVEMENTS ARE OPEN TO PUBLIC USE.

THE CONTRACTOR SHALL PROVIDE FLAGMAN AND OTHER TRAFFIC MEASURES NECESSARY TO PROTECT AND FACILITATE TRAFFIC MOVEMENT DURING CONSTRUCTION

COMPLY WITH ALL LOAD RESTRICTIONS IN THE HAULING OF MATERIALS ON PUBLIC ROADS BEYOND THE LIMITS OF THE WORK, A SPECIAL PERMIT WILL NOT RELIEVE THE CONTRACTOR OF LIABILITY FOR THE DAMAGE WHICH MAY RESULT FROM THE MOVING OF MATERIAL AND EQUIPMENT. THE CONTRACTOR SHALL CONTROL HIS OPERATIONS AND THOSE OF HIS SUBCONTRACTORS, AND ALL SUPPLIERS TO ASSURE THE LEAST INCONVENIENCE TO THE TRAVELING PUBLIC. THE CONTRACTOR SHALL MAINTAIN FREE AND UNOBSTRUCTED MOVEMENT OF VEHICULAR TRAFFIC AND LIMIT HIS OPERATIONS FOR THE SAFETY AND CONVENIENCE OF THE TRAVELING PUBLIC. UNDER ALL CIRCUMSTANCES, SAFETY SHALL BE THE MOST IMPORTANT CONSIDERATION.

OVERNING JURISDICTIONAL PUBLIC WORKS AND/OR UTILITY STANDARDS ARE MINIMUM STANDARDS FOR PUBLIC POTABLE WATER, RECLAIMED WATER AND/OR SANITARY SEWER CONSTRUCTION. THE NOTES BELOW APPLY ONLY WHEN THEY EXCEED THE GOVERNING JURISDICTION PUBLIC WORK STANDARDS.

SANITARY SEWERS FORCE MAINS AND STORM SEWERS SHOULD ALWAYS CROSS UNDERNEATH WATER MAINS, INSTALLATIONS OF SANITARY SEWERS, FORCE MAINS AND STORM SEWERS AND STORM SEWERS. CROSSINGS OF WATER MAINS, SHALL BE PERFORMED SO AS TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE, WHENEVER POSSIBLE. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS AND WATER JOINTS SHALL BE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN 10 FEET BETWEEN ANY TWO JOINTS. WHERE SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, BOTH THE SEWER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP), AT THE CROSSING. (DIP IS NOT REQUIRED FOR STORM SEWERS IF IT IS NOT AVAILABLE IN THE SIZE PROPOSED SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO (2) JOINTS. IN LIEU OF DIP, THE SANITARY SEWER MAY BE PLACED IN A SLEEVE FOR 20 FEET CENTERED ON THE POINT OF CROSSING. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE LEAK FREE, AND MECHANICALLY RESTRAINED. A MINIMUM VERTICAL EARANCE OF 6 INCHES MUST BE MAINTAINED AT THE CROSSING. WHERE THERE IS NO ALTERNATIVE TO SEWER PIPES CROSSING OVER WATER MAINS, THE CRITERIA FOR MINIMUM SEPARATION OF 8 INCHES BETWEEN LINES, AND 10 FEET BETWEEN JOINTS, CENTERED AT THE POINT OF CROSSING SHALL BE REQUIRED. THE WATER MAIN SHALL BE PLACED IN A SLEEVE FOR 20 FEET CENTERED ON HE POINT OF CROSSING, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN. ALL CROSSINGS SHALL BE ARRANGED SO THAT THI SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (I.E., PIPES CENTERED ON THE CROSSING). WHERE A PROPOSED PIPE CONFLICTS WITH AN EXISTING PIPE, THE PROPOSED PIPE SHALL BE CONSTRUCTED OF DIP, AND THE CROSSING SHALL BE ARRANGED SO AS TO SATISFY THE REQUIREMENTS IDENTIFIED ABOVI

WHEN THE RECLAIMED WATER LINE IS TRANSPORTING WATER FOR PUBLIC ACCESS IRRIGATION MAXIMUM OBTAINABLE SEPARATION OF RECLAIMED WATER LINES AND DOMESTIC WATER LINES SHALL BE PRACTICED. A MINIMAL HORIZONTAL SEPARATION OF FIVE FEET (CENTER TO CENTER) OR THREE FEET (OUTSIDE TO OUTSIDE) SHALL BE MAINTAINED BETWEEN RECLAIMED WATER LINES AND EITHER POTABLE WATER MAINS OR SEWAGE COLLECTION LINES. AN 18 INCH VERTICAL SEPARATION SHALL BE MAINTAINED AT CROSSINGS.

WHEN THE RECLAIMED WATER LINE IS TRANSPORTING WATER FOR NON-PUBLIC ACCESS IRRIGATION: THE RECLAIMED WATER MAIN SHALL BE TREATED LIKE A SANITARY SEWER, AND A 10 FOOT. HORIZONTAL AND 18 INCH VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN THE RECLAIMED WATER MAIN AND ALL EXISTING OR PROPOSED POTABLE WATER MAINS. NO MINIMUM SEPARATION IS REQUIRED BETWEEN THE RECLAIMED WATER MAIN AND SANITARY SEWERS, OTHER THAN NECESSARY TO ENSURE STRUCTURAL INTEGRITY AND PROTECTION OF THE LINES

- A MINIMUM 10 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN <u>ANY</u> TYPE OF SEWER (INCLUDING FORCE MAINS) AND EXISTING OR PROPOSED WATER MAINS, IN PARALLE INSTALLATIONS WHENEVER POSSIBLE. THE DISTANCE FOR SEPARATION SHALL BE MEASURED EDGE TO EDGE. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE INSTALLED IN A SEPARATE TRENCH, OR IN AN UNDISTURBED EARTH SHELF, LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN, AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER LINE, AND WATER AND SEWER JOINTS SHALL BE STAGGERED. WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES, IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SEWER OR FORCE MAIN SHALL BE CONSTRUCTED OF DIP (IF AVAILABLE IN THE SIZE PROPOSED), WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE LOCATED ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (I.E., STAGGERED JOINTS).
- ALL DIP PIPE SHALL BE CLASS 50 OR HIGHER. REFER TO NOTE #S: 6, 9 & 10 BELOW FOR ADDITIONAL DIP SPECIFICATIONS. ADEQUATE MEASURES AGAINST CORROSION SHALL BE UTILIZED ALL PVC PIPE SHALL BE SOLID WALL POLYVINYL CHLORIDE PIPE AND COMPLY WITH ASTM D 3034 AND ALL APPLICABLE ASTM DOCUMENTS AS COVERED IN SECTION No. 2 OF ASTM D 3034. MAIN LINES
- SHALL BE A MINIMUM OF 8" DIAMETER, AND LATERALS SHALL BE A MINIMUM 6" DIAMETER. ALL SANITARY SEWER MAINS, LATERALS AND FORCE MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER, UNLESS OTHERWISE NOTED ON PLANS. ALL GRAVITY SEWERS MUST BE SDR 21 PVC OR SCHEDULE 40 PIPE. ELASTOMERIC GASKET JOINTS SHALL BE UTILIZED FOR PVC PIPE, AND SHALL COMPLY WITH ASTM F477, ASTM D3231 & ASTM F1336.
- JOINTS SHALL COMPLY WITH ASTM D3212 ALL PVC FORCE MAINS (IF REQUIRED) SHALL BE CLASS 200, DR 14 FOR 4" DIAMETER, AND CLASS 150, DR 18 FOR 6" TO 12" DIAMETER PIPE, IN ACCORDANCE WITH AWWA C900 STANDARDS. PVC FORCE
- MAIN PIPE SMALLER THAN 4" DIAMETER SHALL BE CLASS 200, SDR 21, IN ACCORDANCE WITH ASTM D 2241. FORCE MAINS SHALL BE SPIRAL WRAPPED WITH 2 INCH WIDE DARK GREEN STICK-ON VINYL TAPE. FORCE MAINS WITHIN THE RIGHT-OF-WAY SHALL BE CLASS 52 DIP, MINIMUM 3" DIAMETER.
- ALL SANITARY MANHOLES SHALL BE LOCATED NO MORE THAN 400 FEET APART AND SHALL CONFORM TO THE DETAILS CONTAINED HEREIN, AS WELL AS WITH ASTM C478. ALL DUCTILE IRON PIPE SHALL MEET REQUIREMENTS OF AWWA C151, ANSI SPEC. A21.51.
- ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE PROVIDED WITH A VIRGIN POLYETHYLENE INTERIOR LINING COMPLYING WITH ASTM D 1248 (40 MILS THICK) HEAT BONDED TO THE INTERIOR OF AL PIPES. ALL DIP PIPE SHALL HAVE A STANDARD OUTSIDE COATING COMPLYING WITH ASTM C151-8.1.
- ALL SLOPES FOR GRAVITY SEWER MAINS AND SERVICE CONNECTIONS SHALL COMPLY WITH STATE AND LOCAL UTILITY CRITERIA. CONTRACTOR TO NOTIFY ENGINEER IF THE SLOPES DEVIATES FROM
- THOSE SHOWN ON THE CONSTRUCTION DOCUMENTS. ALL UTILITIES SHALL BE INSTALLED WITH COMPLIANCE TO GOVERNING JURISDICTION STANDARDS CONSTRUCTION DETAILS AND LAND DEVELOPMENT CODE
- PRIOR TO COMMENCING WORK WHICH REQUIRES CONNECTING PROPOSED FACILITIES TO EXISTING LINES OR APPURTENANCES, THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION(S) OF EXISTING CONNECTION POINT(S) AND NOTIFY THE OWNER'S ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.
- SANITARY SEWER MAINS SHALL HAVE SUITABLE MAGNETIC LOCATOR TAPE(S) BURIED AT LEAST 18 INCHES ABOVE THE MAIN LINES.

B.MANHOLE LEAKAGE TEST SHALL NOT EXCEED FOUR (4) GALLONS PER DAY PER UNIT. NO VISUAL LEAKAGE ALLOWED.

- 15. FORCE MAINS SHALL HAVE SUITABLE MAGNETIC LOCATOR TAPE(S) BURIED AT LEAST 18 INCHES ABOVE THE FORCE MAIN.
- ALL GRAVITY SEWER PIPING SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER AND APPLICABLE MUNICIPALITY/AGENCY. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION(S). THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COSTS ASSOCIATED WITH A TELEVISED INSPECTION (TV) OF THE PROPOSED GRAVITY SEWER LINE CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE COPIES OF THE TV INSPECTION TAPE TO THE ENGINEER, THE OWNER AND THE APPLICABLE MUNICIPALITY/AGENCY.
- THE CONTRACTOR SHALL PERFORM AN INFILTRATION/EXFILTRATION TEST ON ALL GRAVITY SEWERS IN ACCORDANCE WITH THE REGULATORY AGENCY HAVING JURISDICTION. SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER OF RECORD AND SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL. THE SCHEDULING, COORDINATION AND NOTIFICATION OF ALL PARTIES IS THE CONTRACTOR'S RESPONSIBILITY. LEAKAGE TEST ARE SPECIFIED REQUIRING THAT
- A. THE LEAKAGE EXFILTRATION OR INFILTRATION DOES NOT EXCEED 150 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE SYSTEM. RUNS THAT ARE 300 FEET LESS SHALL HAVE NO LEAKAGE.
- C. EXFILTRATION OR INFILTRATION TESTS BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET AIR TESTS, AS MINIMUM, CONFORM TO THE TEST PROCEDURE DESCRIBED IN ASTM C-924 FOR CONCRETE PIPE, ASTM F-1417 FOR PLASTIC PIPE AND FOR OTHER MATERIALS APPROPRIATE TEST PROCEDURES, AIR TESTING, IF SPECIFIED FOR CONCRETE SEWER MANHOLES, CONFORMS TO THE TEST PROCEDURES DESCRIBED IN ASTM C-1244.
- DEFLECTION TESTS SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES, CHAPTER 33.85, FOR ALL GRAVITY SANITARY SEWER LINES. TESTING IS REQUIRED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS TO PERMIT STABILIZATION OF THE SOIL-PIPE SYSTEM. TESTING REQUIREMENTS SPECIFY:
- B.USING A RIGID BALL OR MANDREL FOR THE PIPE DEFLECTION TESTS WITH A DIAMETER NOT LESS THAN 95% OF THE BASE INSIDE DIAMETER OR AVERAGE INSIDE DIAMETER OF THE PIPE, DEPENDING ON WHICH IS SPECIFIED IN THE ASTM SPECIFICATION, INCLUDING THE APPENDIX, TO WHICH THE PIPE IS MANUFACTURED.
- ALL FORCE MAINS (IF APPLICABLE) SHALL BE SUBJECT TO A HYDROSTATIC PRESSURE TEST IN ACCORDANCE WITH THE REGULATORY AGENCY HAVING JURISDICTION, SAID TESTS ARE TO BE CERTIFIED BY THE ENGINEER OF RECORD AND SUBMITTED TO THE REGULATORY AGENCY FOR APPROVAL, THE SCHEDULING, COORDINATION AND NOTIFICATION OF ALL PARTIES IS THE
- COORDINATE WITH THE ENGINEER, GOVERNING UTILITY AUTHORITY AND INSTALLER FOR THE LIFT-STATION/WASTEWATER PUMP STATION START-UP. START-UP PROCEDURES SHALL FOLLOW THE GOVERNING UTILITY AUTHORITY, ENGINEER REQUIRES 48 HOUR NOTICE PRIOR TO REQUESTED START-UP DATE...
- IF THE ABOVE TESTING REQUIREMENTS ARE IN CONFLICT WITH ANY LOCAL, STATE, OR FEDERAL AGENCY, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.

# DEWATERING NOTES:

- DURING THE EXCAVATION PROCESS IF GROUNDWATER IS ENCOUNTERED, THE CONTRACTOR SHALL CONSTRUCT A SEDIMENT BASIN TO PROVIDE A DISCHARGE POINT FOR DEWATERING. THE SEDIMENT BASIN CAN BE A CELL IN THE PROPOSED EXCAVATION AREA OF A POND OR IT CAN BE A BERMED AREA ABOVE GROUND OR AN ABOVE GOUND CHAMBER, ALL DEWATERING MUST BE RETAINED IN THE SEDIMENT AREA UNTIL THE WATER IS CLEAN SUCH THAT THERE WOULD BE NO TURBID DISCHARGE. AFTER THE WATER IN THE SEDIMENT BASIN IS CLEAN, THE WATER MAY BE RELEASED INTO THE ON-SITE POND PROVIDED THERE IS NO ADVERSE IMPACT TO THE EXISTING WATER QUALITY
- IF LIMITED AVAILABLE SPACE BECOMES A CONSTRAINT DURING CONSTRUCTION ACTIVITIES, AND A SETTLING POND CAN NOT BE CONSTRUCTED THEN WE RECOMMEND UTILIZING A BAKER TANK AND NON-CATIONIC FLOCCULENT TO REMAIN IN COMPLIANCE WITH THE GENERIC PERMIT. THE MANUFACTURER INFORMATION SHEET FOR THE FLOCCULENT SHOULD BE KEPT ONSITE ALONG WITH THE PERMIT IF UTILIZED TO REDUCE TURBIDITY IF THE GROUDNWATER CAN NOT BE CONTAINED ON-SITE AND MUST BE DISCHARGED OFF-SITE, THE CONTRACTORS IS RESPONSIBLE FOR FILING FOR AN FDEP DEWATERING NOI, AND CONDUCTING
- ALL WATER TESTING REQUIREMENTS SET FORTH BY THE LOCAL JURISDICTION AND FDEP, IF THE PROJECT IS WITHIN PROXIMITY OF CONTAMINATION OR SUSPECTED CONTAMINATION THE GROUNDWATER WILL HAVE TO BE TESTED PER FDEP REQUIREMENTS AT A MINIMUM. NO POLLUTED WATERS SHALL BE DISCHARGED INTO STORM SYSTEM OR BODIES OF WATER. BEFORE DISCHARGE OF PRODUCED GROUND WATER TO ANY SURFACE WATER OF THE STATE FROM A NON-CONTAMINATED SITE, ANALYTICAL TESTS ON SAMPLES OF DISCHARGE WATER SHALL BE PERFORMED DETERMINE CONTAMINATION. TEST RESULTS MUST MEET MINIMUM REQUIREMENTS SET BY FDEP [DOCUMENT 62-621.300(2) GENERIC PERMIT FOR THE DISCHARGE OF PRODUCED GROUNDWATER FROM NON-CONTAMINATED SITE ACTIVITY]. ANY DEWATERING DRAINAGE DISCHARGED INTO SANITARY SEWERS MUST BE APPROVED BY THE GOVERNING WASTEWATER DIVISION BEFORE
- UNDER NO CIRCUMSTANCES WILL THE DISCHARGE FROM THE ON-SITE DEWATERING BE DIRECTLY DISCHARGED OFF-SITE. ALL GROUND WATER DISCHARGED OFF-SITE SHALL BE 29 NEPHELOMETRIC TURBIDITY UNITS (NTUS) OR LESS, TURBIDITY READINGS SHOULD BR COLLECTED TWICE DAILY, AT LEAST FOUR HOURS APART, TO CONFIRM TURBIDITY IS KEPT BELOW 29 NTUS. THE SAMPLES WILL BE COLLECTED AT THE DISCHARGE LOCATION. A LOG OF DAILY TURBIDITY MEASUREMENTS WILL BE KEPT ONSITE FOR
- THE DURATION OF DEWATERING ACTIVITIES ALONG WITH DAILY MEASUREMENTS OF THE FLOW RATE IN GALLONS PER DAY IT IS THE CONTRACTOR'S RESPONSIBILITY TO DEVELOP A DEWATERING SYSTEM THAT PROVIDES PRETREATMENT OF EFFLUENT PRIOR TO DISCHARGE INTO ADJACENT SURFACE WATERS OR LOCAL SANITARY UTILITY SYSTEM, IF ALLOWED/REQUIRED. THE CONTRACTOR'S DEWATERING METHOD MUST MEET ALL FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING THIS PRACTICE INCLUDING THE USE OF PERMITTED OUTFALL STRUCTURES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND APPLY FOR A DEWATERING PERMIT WITH THE APPROPRIATE
- WATER MANAGEMENT DISTRICT AND LOCAL GOVERNING JURISDICTION. THE DEWATERING SYSTEM SHALL BE DESIGNED, AND BE PROVIDED, USING ACCEPTED AND PROFESSIONAL METHODS CONSISTENT WITH CURRENT INDUSTRY PRACTICE. PROVIDE DEWATERING SYSTEM OF SUFFICIENT SIZE AND CAPACITY TO CONTROL GROUNDWATER IN A MANNER THAT PRESERVES STRENGTH OF FOUNDATION SOILS. DOES NOT CAUSE INSTABILITY OR RAVELING OF EXCAVATION OR RAVELING OF EXCAVATION SLOPES, AND DOES NOT RESULT IN DAMAGE TO EXISTING STRUCTURES, WHERE NECESSARY TO THESE PURPOSES, LOWER WATER LEVEL IN ADVANCE OF EXCAVATION UTILIZING WELLS, WELLPOINTS, OR SIMILAR POSITIVE METHODS.MAINTAIN THE GROUNDWATER LEVEL TO A MINIMUM OF 2 FEET BELOW EXCAVATIONS. PROVIDE PIEZOMETERS IF
- DIRECTED BY THE ENGINEER TO DOCUMENT THE GROUNDWATER LEVEL IS BEING MAINTAINED. CONTROL BY ACCEPTABLE MEANS, ALL WATER REGARDLESS OF SOURCE AND BE FULLY RESPONSIBLE FOR DISPOSAL OF THE WATER. NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY SUPPLEMENTAL MEASURES TO CONTROL SEEPAGE GROUNDWATER OR ARTESIAN HEAD
- OPFN PLIMPING WITH SUMPS AND DITCHES SHALL BE ALLOWED PROVIDED IT DOES NOT RESULT IN BOILS, LOSS OF FINES, SOFTENING OF THE GROUND, OR INSTABILITY OF SLOPES. SUMPS SHALL BE LOCATED OUTSIDE OF LOAD BEARING AREAS SO THE BEARING SURFACES WILL NOT BE DISTURBED. WATER CONTAINING SILT IN SUSPENSION SHALL BE PUMPED INTO SEWER LINES OR ADJACENT STREAMS, DURING NORMAL PUMPING AND UPON DEVELOPMENT WELL(S), LEVEL OF FINE SAND OR SILT IN THE DISCHARGE WATER SHALL NOT EXCEED 5PPM.
- THE CONTRACTOR SHALL BE REQUIRED TO PERMIT THE DEWATERING SYSTEM WITH THE LOCAL WATER MANAGEMENT DISTRICT IF:
- A. 100,000 GPD TOTAL IN A 24 HOUR (1 DAY) PERIOD FROM DEWATERING
- B.1.000.000 GPD PUMP CAPACITY IS REQUIRED GROUNDWATER WELL SIZE 8" IN DIAMETER OR GREATER CUMULATIVE OUTSIDE DIAMETER OR SURFACE WATER WITHDRAWAL PIPES IS 6" IN DIAMETER OR GREATER

THE CONTRACTOR SHALL BE REQUIRED TO PERMIT THE DEWATERING SYSTEM WITH WATER MANAGEMENT DISTRICT, HOWEVER, IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY WITH THE LOCAL WATER MANAGEMENT AND GOVERNING JURISDICTION ON THE PERMIT REQUIREMENTS FOR DEWATERING, ALL PERMITS SHALL BE SUBMITTED A MINIMUM OF 21 DAYS PRIOR TO STARTING DEWATERING

- CONTINUOUSLY MAINTAIN EXCAVATIONS IN A DRY CONDITION WITH POSITIVE DEWATERING METHODS DURING PREPARATION OF SUBGRADE, INSTALLATION OF PIPE, AND CONSTRUCTION OF STRUCTURES UNTIL THE CRITICAL PERIOD OF CONSTRUCTION AND/OR BACKFILL IS COMPLETED TO PREVENT DAMAGE OF SUBGRADE SUPPORT, PIPING, STRUCTURE, SIDE SLOPES, OR ADJACENT FACILITIES FROM FLOATATION OR OTHER HYDROSTATIC PRESSURE IMBALANCE.
- IF SILTY/CLAY SANDS, WHICH CAUSE THE WATER TO BECOME TURBID. ARE ENCOUNTERED THEN THE WATER SHALL BE TREATED WITH CHEMICAL ADDITIVES, SUCH AS ALUM, IN THE SEDIMENT BASIN IN ORDER TO PROMOTE THE COAGULATION OF THE PARTICLES WHICH ALLOW THE SEDIMENT TO SETTLE AND THE WATER TO BECOME LESS TURBID, IF TURBID WATER IS ENCOUNTERED DURING THE EXCAVATION OF THE PONDS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY TO DETERMINE THE COURSE OF ACTION THAT IS APPROPRIATE TO ELIMINATE THE TURBIDITY AND ALLOW DISCHARGE THAT MEETS WATER QUALITY STANDARDS.
- THE EXCAVATION PROCESS SHALL BE SEQUENCED IN SUCH A MANNER SUCH THAT THE SEDIMENT BASIN WILL BE AVAILABLE AT ALL TIMES. THE SEDIMENT BASIN CAN BE RELOCATED AS NECESSARY SUBJECT TO THE WATER WITHIN THE SEDIMENT BASIN BEING NON-TURBID AND
- ACCEPTABLE FOR DISCHARGE WHEN CONSTRUCTION IS COMPLETE, REMOVE ALL DEWATERING EQUIPMENT FROM SITE

INCLUDING WELLS AND RELATED TEMPORARY ELECTRICAL SERVICE.



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COMMON OAK ENGINEERING 09 FDGFWATER DRIVE, SUITE ORLANDO, FL. 32804 (407)951-5915 RTIFICATE OF AUTHORIZATION: 326

**ENGINEER'S NAME & PE#** 

JEREMY R. ANDERSON, P.I

P.E. LICENSE NO. 71636

ROJECT # 221.056

N.T.S.

CONTRACTORS MUST EXERCISE APPROPRIATE CARE AND PRECISION IN CONSTRUCTION OF ADA (HANDICAP) ACCESSIBLE COMPONENTS AND ACCESS ROUTES FOR THE SITE. THESE COMPONENTS, AS CONSTRUCTED, MUST COMPLY WITH THE CURRENT STATE & LOCAL BUILDING CODE, THE DEPARTMENT OF JUSTICE ADA STANDARDS, REGULATIONS' BARRIER FREE ACCESS AND ANY MODIFICATIONS, REVISIONS OR UPDATES TO SAME. FINISHED SURFACES ALONG THE ACCESSIBLE ROUTE OF TRAVEL FROM PARKING SPACE, PUBLIC TRANSPORTATION, PEDESTRIAN ACCESS, INTER-BUILDING ACCESS, TO POINTS OF ACCESSIBLE BUILDING ENTRANCE/EXIT, MUST COMPLY WITH THESE ADA CODE REQUIREMENTS. THESE INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

- 10. PARKING SPACES AND PARKING AISLES SLOPE SHALL NOT EXCEED 1:50 (1/4" PER FDOT OR 2.0%) IN ANY DIRECTION. THIS INCLUDES RUNNING SLOPE AND
- 11. RAMPS SLOPES EXCEEDING 1:20 (5%) BUT NO MORE THAN 1:12 (8.3%) CONSTITUTE A RAMP AND MUST CONFORM TO THE REQUIREMENTS FOR RAMP DESIG (HANDRAILS, CURBS, AND LANDINGS). NO RAMP SHALL EXCEED A 1:12 (8.3%) RUNNING SLOPE OR 1:50 (2%) CROSS SLOPE. RAMPS EXCEEDING SIX FEET IN LENGTH REQUIRE A HANDRAIL THAT CONFORMS TO ADA STANDARDS. A RAMP MAY NOT RISE MORE THAN 2.5 FEET WITHOUT A LANDING.
- 12. LANDINGS MUST BE PROVIDED AT EACH END OF RAMPS, MUST PROVIDE POSITIVE DRAINAGE, AND MUST NOT EXCEED 1:50 (1/4" PRT FDOT OR 2.0%) IN AN DIRECTION. THE LANDING SHOULD BE AS WIDE AS THE PROPOSED RAMP, MIN 36" WIDE, AND BE 60" LONG. IN MOST SITE CASES LANDINGS SHOULD BE 5 FEET BY 5
- 13. PATH OF TRAVEL ALONG ACCESSIBLE ROUTE MUST PROVIDE A 36-INCH OR GREATER UNOBSTRUCTED WIDTH OF TRAVEL (CAR OVERHANGS AND/OR HANDRAILS CANNOT REDUCE THIS MINIMUM WIDTH). IF THE PATH OF TRAVEL GOES TO A PUBLIC RIGHT-OF WAY, IT IS PREFERRED THAT THE ROUTE BE A MINIMUM OF 60 INCHES. THE SLOPE SHOULD BE NO GREATER THAN 1:20 (5.0%) IN THE DIRECTION OF TRAVEL, AND MUST NOT EXCEED 1:50 (1/4" PER FDOT OR 2.0%) IN CROSS SLOPE. WHERE PATH OF TRAVEL WILL BE GREATER THAN 1:20 (5.0%), THE ADA RAMP CRITERIA MUST BE ADHERED TO. A MAXIMUM SLOPE OF 1:12 (8.3%), FOR A MAXIMUM RISE OF 2.5 FEET, MUST BE PROVIDED. THE RAMP MUST HAVE ADA HAND RAILS AND 'LEVEL' LANDINGS ON EACH END THAT ARE CROSS SLOPED NO MORE THAN 1:50 (1/4" PER FDOT OR 2.0%) FOR POSITIVE DRAINAGE.
- 14. CROSS-WALKS THE PATH OF TRAVEL STANDARD APPLIES TO CROSS WALKS IN THE DRIVEWAY AS WELL AND WILL REQUIRE SPECIAL ATTENTION DURING STAKING TO MAKE SURE THE 1:50 (2%) CROSS SLOPE IS MET IN THE CROSS WALK.
- 15. DOORWAYS MUST HAVE A 'LEVEL' LANDING AREA ON THE EXTERIOR SIDE OF THE DOOR THAT IS SLOPED AWAY FROM THE DOOR NO MORE THAN 1:50 (1/4" PER FDOT OR 2.0%) FOR POSITIVE DRAINAGE. THIS LANDING AREA MUST BE NO LESS THAN 60 INCHES (5 FEET) LONG, EXCEPT WHERE OTHERWISE PERMITTED BY ADA STANDARDS FOR ALTERNATIVE DOORWAY OPENING CONDITIONS. (SEE ICC/ANSI A117.1-2003 AND OTHER REFERENCED INCORPORATED BY FDOT.)
- 16. WHEN THE PROPOSED CONSTRUCTION INVOLVES RECONSTRUCTION, MODIFICATION, REVISION OR EXTENSION OF OR TO ADA COMPONENTS FROM EXISTING DOORWAYS OR SURFACES, CONTRACTOR MUST VERIFY EXISTING ELEVATIONS SHOWN ON THE PLAN. NOTE THAT TABLE 405.2 OF THE DEPARTMENT OF JUSTICE'S ADA STANDARDS FOR ACCESSIBLE DESIGN ALLOWS FOR STEEPER RAMP SLOPES, IN RARE CIRCUMSTANCES. THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE DESIGN ENGINEER OF ANY DISCREPANCIES AND/OR FIELD CONDITIONS THAT DIFFER IN ANY WAY OR ANY RESPECT FROM WHAT IS SHOWN ON THE PLANS, IN WRITING, BEFORE COMMENCEMENT OF WORK. CONSTRUCTED IMPROVEMENTS MUST FALL WITHIN THE MAXIMUM AND MINIMUM LIMITATIONS IMPOSED BY THE BARRIER FREE REGULATIONS AND THE ADA REQUIREMENTS.
- 17. IT WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE THAT THE HANDICAP PARKING SPACES, ACCESSIBLE ROUTES, AND SIDEWALKS/CROSSWALKS ARE CONSTRUCTED TO MEET ADA REQUIREMENTS. THE CONTRACTOR MUST VERIFY THE SLOPES OF CONTRACTOR'S FORMS PRIOR TO POURING CONCRETE. IF ANY NON-CONFORMANCE IS OBSERVED OR EXISTS, CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER PRIOR TO POURING CONCRETE. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS TO REMOVE, REPAIR AND REPLACE NON-CONFORMING CONCRETE

IT IS STRONGLY RECOMMENDED THAT THE CONTRACTOR REVIEW THE INTENDED CONSTRUCTION WITH THE LOCAL BUILDING CODE PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY REQUIREMENTS LISTED ABOVE OR OTHER NON-STATED ADA REQUIREMENT THAT CAN NOT BE MET SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY. ANYTHING NOT BUILT TO THE ABOVE STANDARDS WILL REQUIRE REMOVAL AND REPLACEMENT OF THE NONCOMPLIANT AREAS AT THE GENERAL CONTRACTOR'S COST.

### PAVING AND GRADING NOTES:

- ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS OR AS DEFINED BY CURRENT FDOT SPECIFICATIONS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER, THE OWNER'S ENGINEER, OR OWNER'S SOILS TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. DEWATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.
- ALL NECESSARY FILL AND EMBANKMENT THAT IS PLACED DURING CONSTRUCTION SHALL CONSIST OF MATERIAL SPECIFIED BY THE OWNER'S SOILS TESTING COMPANY (UNIVERSAL ENGINEERING SCIENCES, INC., ORLANDO, FL OFFICE) OR ENGINEER AND BE PLACED AND COMPACTED ACCORDING TO THESE PLANS.
- PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADES UNLESS OTHERWISE NOTED.
- FINISHED SURFACES ADJACENT TO PAVED AREAS AND WITHIN 10 FEET OF STRUCTURES SHALL BE WITHIN 1 INCH OF THE PROPOSED GRADE. ALL OTHER AREAS SHALL BE WITHIN 3 INCHES OF THE PROPOSED GRADE.
- 6. IT MAY BE NECESSARY TO FIELD ADJUST PAVEMENT ELEVATIONS TO PRESERVE THE ROOT SYSTEMS OF TREES SHOWN TO BE SAVED. CONTRACTOR TO COORDINATE WITH OWNER'S ENGINEER PRIOR TO ANY ELEVATION CHANGES.
- 7. CONTRACTOR SHALL SAW CUT, TACK, AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
- 8. UNIFORMLY SMOOTH GRADE THE SITE. DEPRESSIONS FROM SETTLEMENT SHALL BE FILLED AND COMPACTED. TOPS OF EMBANKMENTS AND BREAKS IN GRADE SHALL BE ROUNDED. FINISHED SURFACES SHALL BE REASONABLY SMOOTH, COMPACTED, FREE FROM IRREGULAR SURFACE CHANGES AND COMPARABLE TO THE SMOOTHNESS OBTAINED BY BLADE-GRADER OPERATIONS.
- CURBING SHALL BE PLACED AT THE EDGES OF ALL PAVEMENT, UNLESS OTHERWISE NOTED. REFER TO THE LATEST EDITION OF F.D.O.T. "ROADWAY AND TRAFFIC DESIGN STANDARDS" FOR DETAILS AND SPECIFICATIONS OF ALL F.D.O.T. TYPE CURB AND GUTTERS CALLED FOR IN THESE PLANS.
- 10. PRIOR TO CONSTRUCTING CONCRETE PAVEMENT, THE CONTRACTOR IS TO SUBMIT A PROPOSED JOINTING PATTERN TO THE SOILS ENGINEER FOR RFVIFW/APPROVAL
- 11. CONTRACTOR TO PROVIDE A 1/2" TO 1" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT ABUTMENT OF CONCRETE AND OTHER MATERIALS
- (STRUCTURES, OTHER PLACED CONCRETE, ETC.).
- 12. SEAL CONCRETE PER ASTM C309 OR ASTM C1315 (TYPE II) PRIOR TO SAW CUTTING CONTROL JOINTS.
- 13. CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING ALL EXISTING MANHOLE AND INLET COVERS, VALVE BOXES, BLOW-OFF RISERS, ETC. TO PROPOSED ELEVATIONS, AS REQUIRED, WHETHER SPECIFICALLY SHOWN ON PLANS OR NOT.
- 14. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DESIGN STANDARDS, AND/OR LOCAL GOVERNING JURISDICTION.
- THE CONTRACTOR WILL STABILIZE, BY SEED AND MULCH, SOD, OR OTHER APPROVED MATERIALS (REFER TO PLANS), ANY AND ALL DISTURBED AREAS WITHIN ON WEEK FOLLOWING CONSTRUCTION OF THE UTILITY SYSTEMS AND PAVEMENT AREAS. CONTRACTOR SHALL MAINTAIN SUCH AREAS UNTIL FINAL ACCEPTANCE B' OWNER AND OWNER'S ENGINEER. CONTRACTOR TO COORDINATE WITH OWNER REGARDING TYPE OF MATERIAL, LANDSCAPING AND IRRIGATION REQUIREMENTS
- ELEVATIONS REFER TO NAVD 88 VERTICAL DATUM.
- 17. GRADING SHOWN ON THESE PLANS IS PROVIDED TO CONTRACTOR TO EXPRESS THE GENERAL GRADING INTENT OF THE PROJECT. THE CONTRACTOR SHALL B EXPECTED TO GRADE THE ENTIRE SITE TO PROVIDE POSITIVE DRAINAGE IN ALL AREAS THROUGHOUT THE SITE. SMOOTH TRANSITIONS SHALL BE PROVIDED BETWEEN CONTOURS OR SPOT ELEVATIONS AS SHOWN ON THE PLANS TO ACCOMPLISH THE GRADING INTENT. ALL SLOPES SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADING HAS BEEN COMPLETED. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER PRIOR TO DEMOBILIZATION OF GRADING EQUIPMENT TO DETERMINE THAT THE GRADING INTENT HAS BEEN ACHIEVED.
- 18. NEWLY GRADED AREAS SHALL BE PROTECTED FROM TRAFFIC AND EROSION. ALL SETTLEMENT OR WASHING AWAY THAT MAY OCCUR FROM ANY CAUSE PRIOR TO SEEDING OR ACCEPTANCE SHALL BE REPAIRED AND GRADES RE-ESTABLISHED TO THE REQUIRED ELEVATIONS AND SLOPES AT NO ADDITIONAL COST TO THE

# TESTING AND INSPECTION REQUIREMENTS (PAVING/GRADING):

- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE TESTING WITH THE SOILS ENGINEER. TESTS WILL BE REQUIRED PURSUANT WITH SIT SPECIFIC GEOTECHNICAL REPORT FOR THE SITE. AS WELL AS THE TESTING SCHEDULE REQUIRED BY FDOT AND THE AFFECTED MUNICIPALITY. THE MORE STRINGENT REQUIREMENTS SHALL APPLY. UPON COMPLETION OF WORK, THE SOILS ENGINEER WILL SUBMIT CERTIFICATIONS TO THE OWNER AND OWNER'S ENGINEER STATING THAT ALL REQUIREMENTS HAVE BEEN MET.
- A QUALIFIED TESTING LABORATORY SHALL PERFORM ALL TESTING NECESSARY TO ASSURE COMPLIANCE OF THE IN-PLACE MATERIALS AS REQUIRED BY THESE PLANS AND THE VARIOUS AGENCIES. SHOULD ANY RETESTING BE REQUIRED DUE TO THE FAILURE OF ANY TESTS TO MEET THE REQUIREMENTS, THE CONTRACTOR WILL BEAR ALL COSTS OF SAID RETESTING.
- THE OWNER'S ENGINEER WILL NOT BE RESPONSIBLE FOR SCHEDULING, COORDINATION OR EVALUATION OF THE SOILS TESTING AND CERTIFICATIONS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE OWNER/DEVELOPER TO MAKE THE NECESSARY ARRANGEMENTS DIRECTLY WITH THE SOILS TESTING LABORATORY/GEOTECHNICAL FIRM AND THE SITE CONTRACTOR.
- THE FINISHED SURFACE OF THE BASE COURSE AND THAT OF THE WEARING SURFACE SHALL NOT VARY MORE THAN  $\frac{1}{4}$ " FROM THE TEMPLATE. ANY IRREGULARITIES EXCEEDING THIS LIMIT SHALL BE CORRECTED.

FIELD COMPACTION DENSITY, STABILITY, AND THICKNESS TESTING FREQUENCIES OF SUB-BASE, BASE, AND ASPHALT SHALL BE TESTED ONCE EVERY 300 LINEAR FEET OF PAVING PER 24-FT WIDE STRIP, STAGGERED LEFT, CENTER AND RIGHT OF CENTERLINE. WHERE LESS THAN 300 LINEAR FEET OF SUB-BASE, BASE, AND ASPHALT IS PLACED IN ONE DAY, PROVIDE MIN. OF ONE TEST FOR EACH PER DAY'S CONSTRUCTION AT A LOCATION DESIGNATED BY THE ENGINEER. ASPHALT EXTRACTION GRADATION SHALL BE TESTED FROM GRAB SAMPLES COLLECTED ONCE EVERY 1800 SQUARE YARDS OF ASPHALT DELIVERED TO THE SITE (OR A MINIMUM OF ONCE PER DAY).

# AS-BUILTS, RECORD DRAWINGS & CERTIFICATIONS:

- PRIOR TO CONSTRUCTION, THE CONTRACTOR WILL OBTAIN A COPY OF THE MINIMUM REQUIREMENTS FOR AS-BUILT RECORD DRAWING ACCEPTANCE FOR THE AGENCY HAVING JURISDICTION (SUCH AS THE CITY OR COUNTY) AND/OR UTILITY SERVICE PROVIDER, FAMILIARIZE THEMSELVES WITH THESE REQUIREMENTS, AND PRODUCE AS-BUILT RECORD DRAWINGS THAT SUBSTANTIALLY COMPLY WITH OR EXCEED THESE REQUIREMENTS, INCLUDING ANY REQUIRED ELECTRONIC
- AT LEAST 30 DAYS PRIOR TO ANTICIPATED COMPLETION OF SITE CONSTRUCTION. THE FINAL CERTIFICATION PROCESS SHALL BEGIN, THE CONTRACTOR SHALL PROVIDE DOCUMENTS AND INFORMATION IN A TIMELY MANNER TO ENGINEER, INCLUDING AND WITHOUT LIMITATIONS.
- A. SURVEYED "AS-BUILTS", MINIMUM AS-BUILT SURVEY SCOPE IS LISTED BELOW
- B.COMPACTION AND DENSITY TEST RESULTS CERTIFIED BY OWNERS TESTING COMPANY. C. PRESSURE TESTING AND BACTERIOLOGICAL TESTING RESULTS AS REQUIRED FOR WATER DISTRIBUTION AND/OR WASTEWATER COLLECTION/TRANSMISSION

ALL RECORD DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR IN AUTOCAD FORMAT USING CONSTRUCTION PLAN SHEETS PROVIDED BY THE ENGINEER

- AS-BUILT DRAWINGS SHALL BE ACCURATELY RECORDED AND CERTIFIED BY A LICENSED LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA AND SHALI MEET THE MINIMAL TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF SURVEYOR'S AND MAPPERS IN CHARTER 61G17-6, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027 FLORIDA STATUTES.
- AS-BUILT INFORMATION SHALL BE FIELD VERIFIED, MEASURED, ADDED TO THE AUTOCAD FILES OF THE CONSTRUCTION PLAN SHEETS PROVIDED BY THE ENGINEER, AND CERTIFIED, SIGNED AND SEALED BY THE CONTRACTOR'S LICENSED SURVEYOR WHO WILL BE RESPONSIBLE FOR THE ACCURACY OF ALL THE X, Y AND (Z) LOCATION BASED ON THE COORDINATE SYSTEM FLORIDA EAST ZONE STATE PLANE COORDINATE FEET NAD 83, OF ALL VALVES (CENTER OF
- PIPE), MANHOLES, INLETS, VALVE BOXES (GRADE), HYDRANTS (GRADE), BLOW OFFS (GRADE), SAMPLE POINTS (GRADE) AND METER BOXES (GRADE) ETC. SHALL BE CLEARLY SHOWN. ACCEPTABLE POSITION ACCURACY SHALL BE SUB-METER OR BETTER FOR COMPATIBILITY WITH GLOBAL POSITIONING SYSTEM (GPS) EQUIPMENT. THE VERTICAL DATUM USED SHALL BE NAVD 88 UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION PLANS.
- 6. THE AS-BUILT INFORMATION IS TO INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

# ❖ SITE IMPROVEMENTS:

- ALL BUILDINGS AND OTHER IMPROVEMENTS WITH DESCRIPTIONS, DIMENSIONS, AND LOCATION.
- PAVEMENT WIDTH AND ELEVATIONS AT THE CENTERLINE AND EDGE OF PAVEMENT EVERY 200 FEET PLUS AT ALL CHANGES IN LONGITUDINAL SLOPE, CROSS SLOPE, INLET LOCATIONS, AND AT ALL DRIVEWAY AND STREET INTERSECTIONS.
- FOR PARKING LOTS, RECORD CENTERLINE AND EDGE OF PAVEMENT ELEVATIONS ALONG ALL DRIVE AISLES AND ISLANDS.
- ALL PARKING AREAS AND SIDEWALK RAMPS DESIGNATED FOR HANDICAP ACCESS SHALL CONTAIN HORIZONTAL AND VERTICAL MEASUREMENTS IN ORDER TO VERIFY REQUIRED WIDTHS AND SLOPES HAVE BEEN MET.
- HORIZONTAL AND VERTICAL DATA FOR ANY CONSTRUCTION THAT DEVIATES FROM THE APPROVED ENGINEERING DRAWINGS.
- WHERE THE PLANS CONTAIN SPECIFIC HORIZONTAL LOCATION DATA, SUCH AS STATION AND OFFSET, THE AS-BUILT DRAWINGS ARE TO REFLECT THE ACTUAL HORIZONTAL LOCATION.
- WHERE THE PLANS CONTAIN SPECIFIC VERTICAL ELEVATION DATA, THE AS-BUILT DRAWINGS ARE TO REFLECT THE ACTUAL MEASURED VERTICAL ELEVATION.

# SANITARY SEWER:

- TOP ELEVATION OF EACH MANHOLE FRAME AND COVER AND INVERTS OF EACH LINE ENTERING AND LEAVING EACH MANHOLE/STRUCTURE.
- LENGTH OF EACH RUN OF MAIN BETWEEN MANHOLES (CENTER TO CENTER).
- ACTUAL GRADE/SLOPE OF PIPE BETWEEN MANHOLES.
- LOCATE ALL SERVICE WYES FROM DOWNSTREAM MANHOLE WITH DEPTH AT LOT LINE AND DISTANCE FROM THE MAIN LINE.
- LOCATE WITH MEASUREMENTS FROM PERMANENT VISIBLE OBJECTS ALL FITTINGS/ACCESSORIES NOT VISIBLE FROM THE SURFACE (MINIMUM TWO POINT

- TOP ELEVATION OF EACH MANHOLE FRAME AND COVER/GRATE AS WELL AS ALL OTHER STRUCTURES (HEADWALLS, CONTROL STRUCTURES, ETC.) AND INVERT OF EACH LINE ENTERING AND LEAVING EACH STRUCTURE, INCLUDING UNDERDRAIN PIPES AND ROCK ENVELOPES.
- INVERTS OF ALL MITERED END SECTIONS. ACTUAL GRADE/SLOPE OF PIPE BETWEEN THE STRUCTURES.
- INVERT ELEVATION AND TWO HORIZONTAL TIES FROM PERMANENT VISIBLE OBJECTS TO ALL STORM STUB-OUTS.
- STORMWATER POND TOP OF BERM AND POND BOTTOM ELEVATIONS AND HORIZONTAL DIMENSIONS MEASURED AT A MINIMUM OF TEN LOCATIONS PER POND, AT LOCATIONS DESIGNATED BY THE ENGINEER. TOP OF POND HORIZONTAL DIMENSIONS ARE ALSO TO BE TIED TO PROPERTY CORNERS,
- STORMWATER CONTROL STRUCTURE DIMENSIONS AND ELEVATIONS, INCLUDING ALL WEIRS, SLOTS, ORIFICES, GRATES, AND SKIMMERS.

# ❖ WATER AND REUSE SYSTEMS AND FORCE MAINS:

- ACTUAL LENGTHS OF PIPE BETWEEN BRANCHES AND VALVES IN THE RUN.
- LOCATE WITH MEASUREMENTS FROM PERMANENT VISIBLE OBJECTS ALL FITTINGS/ACCESSORIES NOT VISIBLE FROM THE SURFACE (MINIMUM TWO POINT
- LIST THE DEPTHS OF THE LINES AT ALL VALVES, FITTINGS AND FIRE HYDRANTS.
- POTABLE WATER SHALL CLEARLY INDICATE COMPLIANCE TO MINIMUM SEPARATION DISTANCES OR REQUIRED PIPE UPGRADES.

PRIOR TO THE CIVIL ENGINEERING PUNCH LIST INSPECTION THE CONTRACTOR SHALL SEND THE ENGINEER AN AS-BUILT SURVEY. THE ENGINEER WILL REVIEW THE DRAWINGS FOR COMPLETENESS IN ACCORDANCE WITH THE REQUIREMENTS OF THESE NOTES WITHIN FIVE (5) FULL WORKING DAYS. FOR PRELIMINARY REVIEW. SUBMITTAL IN AUTOCAD AND PDF FORMAT IS SUFFICIENT. IF ANY DEFICIENCIES ARE NOTED, ONE COPY OF REDLINED AS-BUILTS WILL BE GIVEN TO THE GENERAL CONTRACTOR FOR REVISIONS TO BE MADE. REVISED AS-BUILTS WILL NEED TO BE FORWARDED TO THE OWNER'S ENGINEER BEFORE ANY CERTIFICATIONS WILL BE INITIATED.

- IT IS STRONGLY RECOMMENDED THAT THE CONTRACTOR KEEP A DAILY "AS-BUILT" SET OF DRAWINGS WHILE THE WORK BEING DONE IS VISIBLY EXPOSED ACCORDING TO THE CRITERIA OUTLINED HEREIN.
- THE ENGINEER RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO UNCOVER, RETEST AND/OR PERFORM ANY ACTION NECESSARY TO ENSURE THAT THE IMPROVEMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- 9. THE CONTRACTOR'S GEOTECHNICAL ENGINEER SHALL CERTIFY TO OWNER'S ENGINEER THAT ALL SITE, UTILITY, AND ROADWAY COMPACTION, BERM STABILITY,
- AND PAVEMENT CONSTRUCTION SPECIFICATIONS HAVE BEEN CONSTRUCTED TO MEET THE RECOMMENDATIONS OF THE DESIGN GEOTECHNICAL ENGINEER. 10. THE DESIGN ENGINEER RESERVES THE RIGHT TO REQUIRE PERMEABILITY TESTING RESULTS AND BORING LOGS WITHIN DRY RETENTION/DETENTION BASINS TO BE PROVIDED TO OR COMPLETED BY THE GEOTECHNICAL ENGINEER CERTIFYING THE RECOVERY TO THE DESIGN ENGINEER. QUANTITIES, LOCATIONS, AND DEPTHS BELOW FINISHED GRADE SHALL BE SPECIFIED BY THE GEOTECHNICAL ENGINEER.
- 11. COPIES OF PASSING TEST RESULTS SHALL BE PROVIDED TO THE DEVELOPER, ENGINEER OF RECORD, CONTRACTOR AND LOCAL MUNICIPALITY/AGENCY FOR PURPOSES, SUCH AS BUT NOT LIMITED TO, CERTIFICATION, AND ACCEPTANCE OF FACILITIES BY THE DEVELOPER AND/OR MUNICIPALITY/AGENCY.
- 12. THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHEN CONSTRUCTION IS COMPLETE FOR WATER, WASTEWATER, AND STORMWATER SYSTEMS SO TIMELY CERTIFICATIONS MAY BE INITIATED. <u>SATISFACTORY</u> <u>BACTERIOLOGICAL</u> <u>TEST</u> <u>RESULTS, PRESSURE</u> <u>TEST</u> <u>RESULTS, AND AN AS-BUILT</u> <u>SURVEY</u> <u>SHAL</u>L BE SUBMITTED TO ENGINEER FOR ALL WORK REQUIRING CERTIFICATIONS.
- 13. IN CASES WHERE THE OWNER DETERMINES PARTIAL CLEARANCES FROM PERMITTING AGENCIES ARE BENEFICIAL TO THE OWNER FOR COMPLETED PORTIONS OF THE PROJECT, PROVIDE PRELIMINARY RECORD DRAWINGS (AUTOCAD FORMAT) TO THE ENGINEER FOR ITS USE IN PREPARING THE PARTIAL CLEARANCE
- 14. COMPLETE RECORD DRAWINGS THAT ARE FOUND TO BE SATISFACTORY AS A RESULT OF THE ENGINEER'S REVIEW WILL BE USED AS THE BASIS FOR THE FINAL PROJECT RECORD DRAWINGS PREPARED BY THE ENGINEER USING THE CONTRACTOR PROVIDED RECORD DRAWINGS PLUS ENGINEER ADDED INFORMATION.
- 15. COMPLETE SIGNED AND SEALED RECORD DRAWINGS ARE REQUIRED TO BE DELIVERED TO THE OWNER PRIOR TO FINAL INSPECTION OF THE PROJECT. FINAL INSPECTIONS WILL ONLY BE SCHEDULED UPON RECEIPT OF SIGNED AND SEALED RECORD DRAWINGS THAT HAVE BEEN REVIEWED BY THE ENGINEER AND DELIVERED BY THE ENGINEER TO THE OWNER.
- 16. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING DESIGN PARAMETERS ARE MET TO THE SATISFACTION OF THE GEOTECHNICAL AND DESIGN ENGINEER PRIOR TO CERTIFICATION OF COMPLETION.

CONTRACTOR SHALL UPDATE/ADD/REMOVE ANY SIGNS AND PAVEMENT MARKINGS THAT NEED TO BE UPDATED/ADDED/REMOVED IN THE FIELD WITH THE PROPOSED CHANGES EVEN IF THE FDOT COMMENTS BELOW ARE NOT COMPREHENSIVE AND DO NOT COVER EVERY ONE OF THE CHANGES REQUIRED.

# SUITABLE FILL NOTE:

SOIL MATERIALS EXCAVATED OR IMPORTED AND CLASSIFIED AS FINE SANDS TO SLIGHTLY SILTY FINE SANDS (SP, SP-SM), WITH TYPICALLY 12% FINES OR LESS (SILT/CLAY FRACTION), MAY BE CONSIDERED SUITABLE FOR USE AS UTILITY TRENCH BACKFILL, AS WELL AS BUILDING PAD AND PAVEMENT SUBGRADE STRUCTURAL FILL, PROVIDED SAID MATERIALS ARE PROPERLY DRIED, PLACED, AND COMPACTED. SOIL MATERIALS EXCAVATED OR IMPORTED AND CLASSIFIED AS SILTY TO SLIGHTLY CLAYEY FINE SANDS (SM, SP-SC), WITH TYPICALLY 12% TO 25% FINES, MAY ALSO BE CONSIDERED SUITABLE FOR USE AS UTILITY TRENCH BACKFILL, AS WELL AS BUILDING PAD AND PAVEMENT SUBGRADE STRUCTURAL FILL, AFTER SIGNIFICANT DRYING AND SOME MIXING WITH THE FINE SAND MATERIAL DESCRIBED ABOVE. PROPER PLACEMENT AND COMPACTION MUST ALSO BE ENSURED. FILL MATERIAL USED IN THE POND SHALL BE CLEAN NATIVE SANDY SOILS WITH NOT LESS THAN 7-12% PASSING THE NO 200 SIEVE.



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COMMON OAK ENGINEERING 9 EDGEWATER DRIVE, SUITE ORLANDO, FL. 32804 (407)951-5915

RTIFICATE OF AUTHORIZATION: 326

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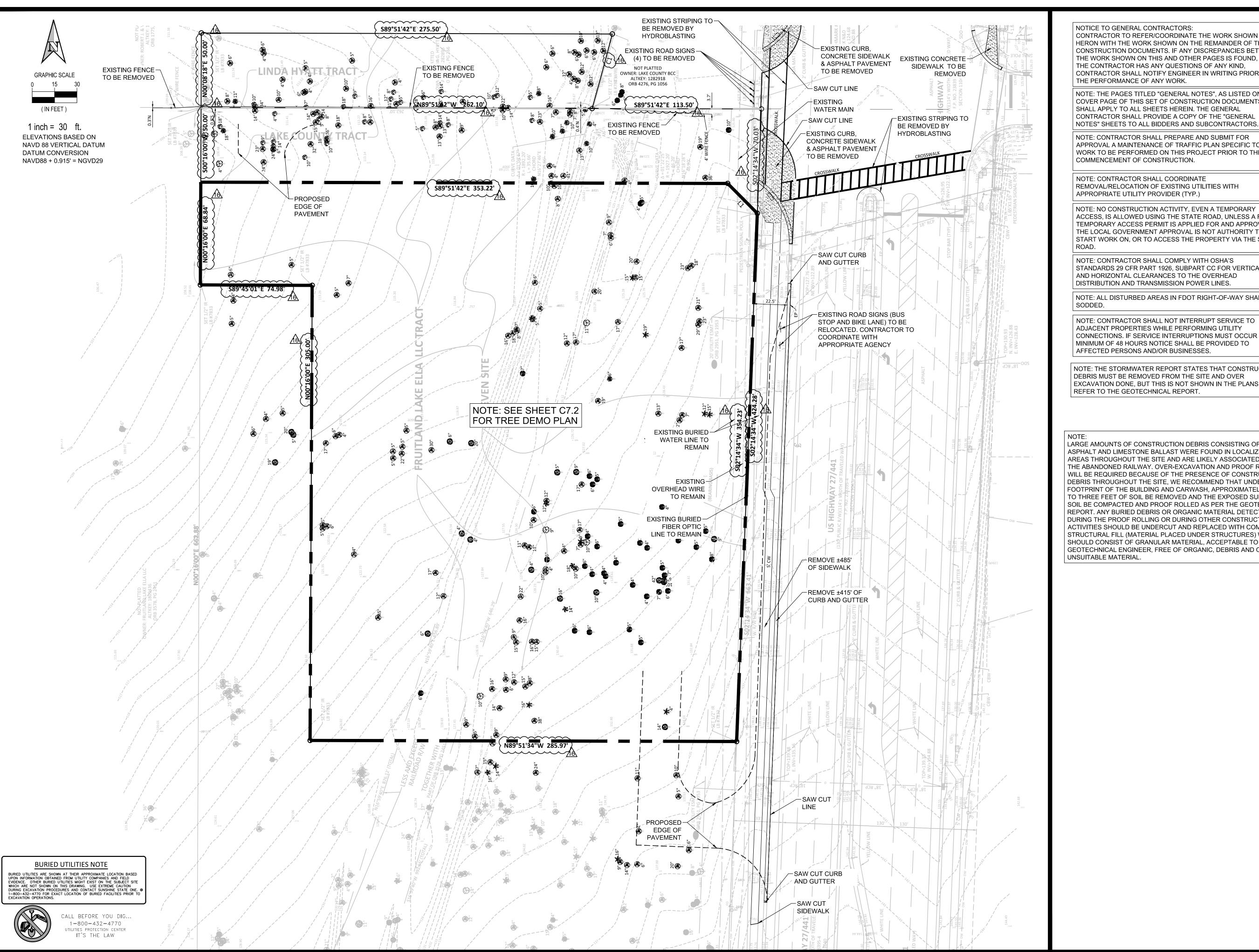
JEREMY R. ANDERSON, P.F

ROJECT # 221.056

P.E. LICENSE NO. 71636

12/15/2021  $\bigcirc$ SCALE N.T.S.

GENERAL NOTES



NOTICE TO GENERAL CONTRACTORS:

CONTRACTOR TO REFER/COORDINATE THE WORK SHOWN HERON WITH THE WORK SHOWN ON THE REMAINDER OF THESE CONSTRUCTION DOCUMENTS. IF ANY DISCREPANCIES BETWEEN THE WORK SHOWN ON THIS AND OTHER PAGES IS FOUND, O IF THE CONTRACTOR HAS ANY QUESTIONS OF ANY KIND, CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING PRIOR TO THE PERFORMANCE OF ANY WORK.

NOTE: THE PAGES TITLED "GENERAL NOTES", AS LISTED ON THE COVER PAGE OF THIS SET OF CONSTRUCTION DOCUMENTS, SHALL APPLY TO ALL SHEETS HEREIN. THE GENERAL CONTRACTOR SHALL PROVIDE A COPY OF THE "GENERAL"

NOTE: CONTRACTOR SHALL PREPARE AND SUBMIT FOR APPROVAL A MAINTENANCE OF TRAFFIC PLAN SPECIFIC TO THE WORK TO BE PERFORMED ON THIS PROJECT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

NOTE: CONTRACTOR SHALL COORDINATE REMOVAL/RELOCATION OF EXISTING UTILITIES WITH APPROPRIATE UTILITY PROVIDER (TYP.)

NOTE: NO CONSTRUCTION ACTIVITY, EVEN A TEMPORARY ACCESS, IS ALLOWED USING THE STATE ROAD, UNLESS A FDOT TEMPORARY ACCESS PERMIT IS APPLIED FOR AND APPROVED. THE LOCAL GOVERNMENT APPROVAL IS NOT AUTHORITY TO START WORK ON, OR TO ACCESS THE PROPERTY VIA THE STATE

NOTE: CONTRACTOR SHALL COMPLY WITH OSHA'S STANDARDS 29 CFR PART 1926, SUBPART CC FOR VERTICAL AND HORIZONTAL CLEARANCES TO THE OVERHEAD DISTRIBUTION AND TRANSMISSION POWER LINES.

NOTE: ALL DISTURBED AREAS IN FDOT RIGHT-OF-WAY SHALL BE

NOTE: CONTRACTOR SHALL NOT INTERRUPT SERVICE TO ADJACENT PROPERTIES WHILE PERFORMING UTILITY CONNECTIONS. IF SERVICE INTERRUPTIONS MUST OCCUR A MINIMUM OF 48 HOURS NOTICE SHALL BE PROVIDED TO AFFECTED PERSONS AND/OR BUSINESSES.

NOTE: THE STORMWATER REPORT STATES THAT CONSTRUCTION DEBRIS MUST BE REMOVED FROM THE SITE AND OVER EXCAVATION DONE, BUT THIS IS NOT SHOWN IN THE PLANS. REFER TO THE GEOTECHNICAL REPORT.

LARGE AMOUNTS OF CONSTRUCTION DEBRIS CONSISTING OF ASPHALT AND LIMESTONE BALLAST WERE FOUND IN LOCALIZED AREAS THROUGHOUT THE SITE AND ARE LIKELY ASSOCIATED WITH THE ABANDONED RAILWAY. OVER-EXCAVATION AND PROOF ROLLING WILL BE REQUIRED BECAUSE OF THE PRESENCE OF CONSTRUCTION DEBRIS THROUGHOUT THE SITE, WE RECOMMEND THAT UNDER THE FOOTPRINT OF THE BUILDING AND CARWASH, APPROXIMATELY TWO TO THREE FEET OF SOIL BE REMOVED AND THE EXPOSED SUBGRADE SOIL BE COMPACTED AND PROOF ROLLED AS PER THE GEOTECHNICAL REPORT. ANY BURIED DEBRIS OR ORGANIC MATERIAL DETECTED DURING THE PROOF ROLLING OR DURING OTHER CONSTRUCTION ACTIVITIES SHOULD BE UNDERCUT AND REPLACED WITH COMPACTED STRUCTURAL FILL (MATERIAL PLACED UNDER STRUCTURES) WHICH SHOULD CONSIST OF GRANULAR MATERIAL, ACCEPTABLE TO THE GEOTECHNICAL ENGINEER, FREE OF ORGANIC, DEBRIS AND OTHER UNSUITABLE MATERIAL.



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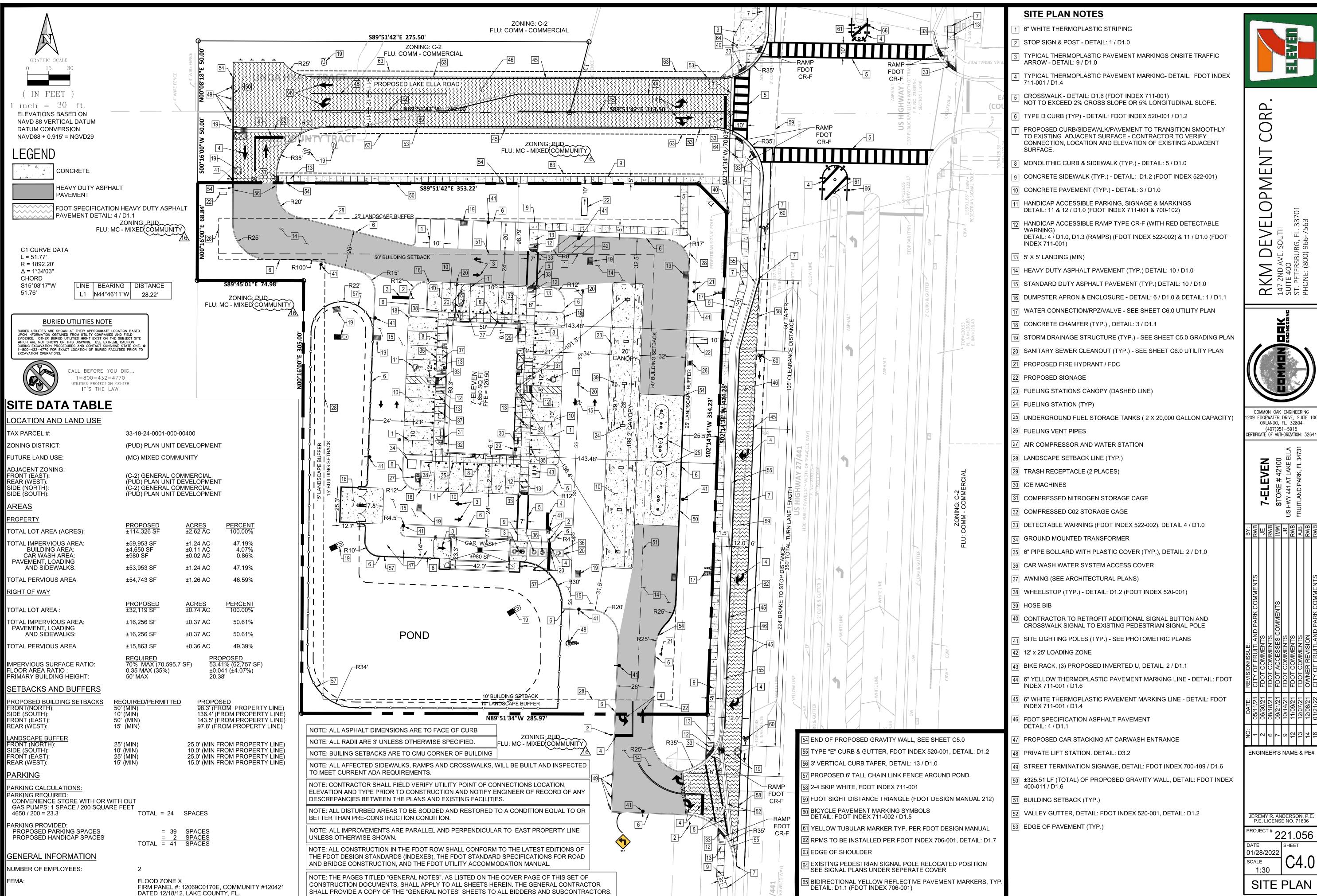
09 EDGEWATER DRIVE, SUITE 1 ORLANDO, FL. 32804 (407)951-5915 RTIFICATE OF AUTHORIZATION: 3264

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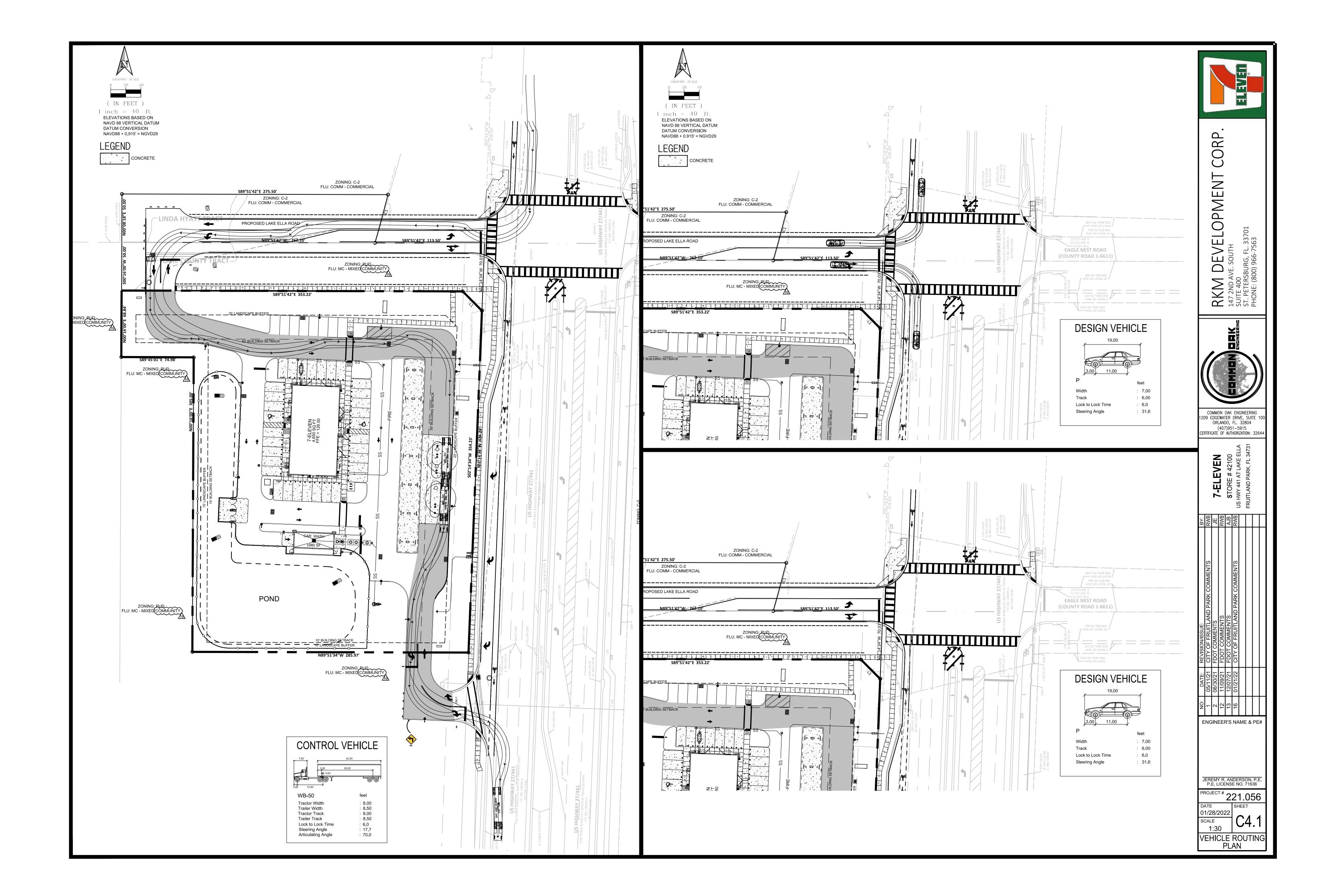
ENGINEER'S NAME & PE#

JEREMY R. ANDERSON, P.E P.E. LICENSE NO. 71636

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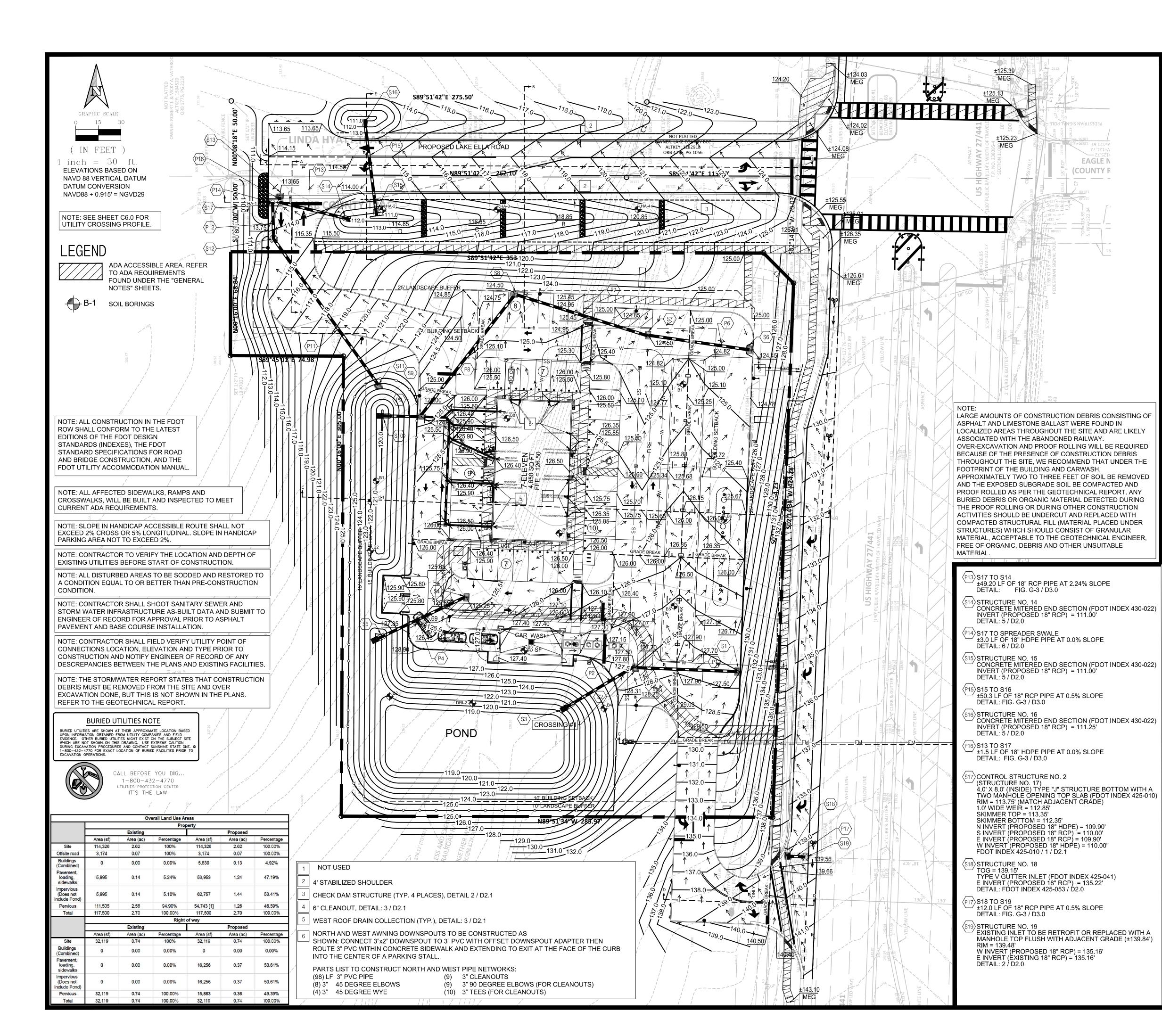
9 EDGEWATER DRIVE, SUITE







REVISION/ISSUE:	CITY OF FRUITLAND PARK COMMENTS	FDOT COMMENTS	FDOT COMMENTS	CITY OF FRUITLAND PARK COMMENTS					
DATE:	05/11/21	06/30/21	12/07/21	01/21/22					
NO:	1	2	13	16					
ENGINEER'S NAME & PE#									



# **GRADING PLAN NOTES**

STRUCTURE NO. 1 TYPE "F" INLET TOG = 127.50'

W INVERT (PROPOSED 18" HDPE) = 124.00' DETAIL: FDOT INDEX 425-053 / D2.1

±66.9 LF OF 18" HDPE PIPE AT 1.0% SLOPE DETAIL: FIG. G-3 / D3.0

STRUCTURE NO. 2 TYPE "F" INLET

TOG = 127.50' E INVERT (PROPOSED 18" HDPE) = 123.33' SW INVERT (PROPOSED 18" HDPE) = 122.03' DETAIL: FDOT INDEX 425-053 / D2.1

±52.2 LF OF 18" HDPE PIPE AT 3.9% SLOPE

DETAIL: FIG. G-3 / D3.0

STRUCTURE NO. 3 CONCRETE MITERED END SECTION (FDOT INDEX 430-022 NE INVERT (PROPOSED 18" HDPE) = 120.00' DETAIL: 5 / D2.0

P3 NOT USED

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TYPE "F" STRUCTURE TOG = 125.25' SW INVERT (PROPOSED 18" HDPE) = 121.65' DETAIL: 2/D2.0 & FDOT INDEX 425-053 / D2.1

±65.0 LF OF 18" HDPE PIPE AT 1.0% SLOPE DETAIL: FIG. G-3 / D3.0

S STRUCTURE NO. 5 CONCRETE MITERED END SECTION (FDOT INDEX 430-022) INVERT (PROPOSED 18" HDPE) = 120.00' DETAIL: 5 / D2.0

P5 NOT USED

STRUCTURE NO. 6 ── TYPE "F" INLET TOG = 124.45' W INVERT (PROPOSED 18" HDPE) = 120.95'

±67.0 LF OF 18" HDPE PIPE AT 0.5% SLOPE

DETAIL: FDOT INDEX 425-053 / D2.1

DETAIL: FIG. G-3 / D3.0 STRUCTURE NO. 7

TYPE "F" INLET TOG = 124.50' E INVERT (PROPOSED 18" HDPE) = 120.61' NW INVERT (PROPOSED 18" HDPE) = 120.61' DETAIL: FDOT INDEX 425-053 / D2.1

±91.6 LF OF 18" HDPE PIPE AT 0.5% SLOPE DETAIL: FIG. G-3 / D3.0

S8 STRUCTURE NO. 8 TYPE "F" INLET E INVERT (PROPOSED 18" HDPE) = 120.15' SW INVERT (PROPOSED 18" HDPE) = 120.15' DETAIL: FDOT INDEX 425-053 /D2.1

 $\langle P8 \rangle$  S8 TO S9 ±101.4 LF OF 18" HDPE PIPE AT 0.5% SLOPE DETAIL: FIG. G-3 / D3.0

(S9) STRUCTURE NO. 9

TYPE "F" INLET TOG = 124.90' E. INVERT = (PROPOSED 12" HDPE) = 122.67' NE INVERT (PROPOSED 18" HDPE) = 119.64' W INVERT (PROPOSED 18" HDPE) = 120.25' DETAIL: 2/D2.0 & FDOT INDEX 425-053 / D2.0

 $\langle P9 \rangle$  S9 TO S10 ±25.3 LF OF 18" HDPE PIPE AT 1.0% SLOPE DETAIL: DETAIL: FIG. G-3 / D3.0

(\$10) STRUCTURE NO. 10 CONCRETE MITERED END SECTION (FDOT INDEX 430-022) INVERT (PROPOSED 18" HDPE) = 120.00' DETAIL: 5 / D2.0

⟨P10⟩ NOT USED

DETAIL: 6/ D2.1

(S11) CONTROL STRUCTURE NO. 1 (STRUCTURE NO. 11)

TYPE "F" INLET (FDOT INDEX 425-053)TOG = 124.50' 2.0' WIDE WEIR = 124.00' SKIMMER TOP = 124.50' SKIMMER BOTTOM = 123.50' NW INVERT (PROPOSED 18" HDPE) = 118.67'

±119.0 LF OF 18" HDPE PIPE AT 7.0% SLOPE DETAIL: FIG. G-3 / D3.0

(\$12) STRUCTURE NO. 12 4' DIAMETER TYPE P ALTERNATE "A" STRUCTURE BOTTOM WITH MANHOLE TOP AND 18" SUMP RIM = 113.66' N INVERT (PROPOSED 18" RCP) = 110.14' SE INVERT (PROPOSED 18" HDPE) = 110.34' FDOT INDEX 425-010 / D2.6

(P12) S12 TO S17 ±28.7 LF OF 18" RCP PIPE AT 0.5% SLOPE DETAIL: FIG. G-3 / D3.0

 $\langle S13 \rangle$  STRUCTURE NO. 13 TYPE V GUTTER INLET (FDOT INDEX 425-041) RIM = 113.65 S INVERT (PROPOSED 18" RCP) = 109.90' DETAIL: FDOT INDEX 425-041 / D2.0



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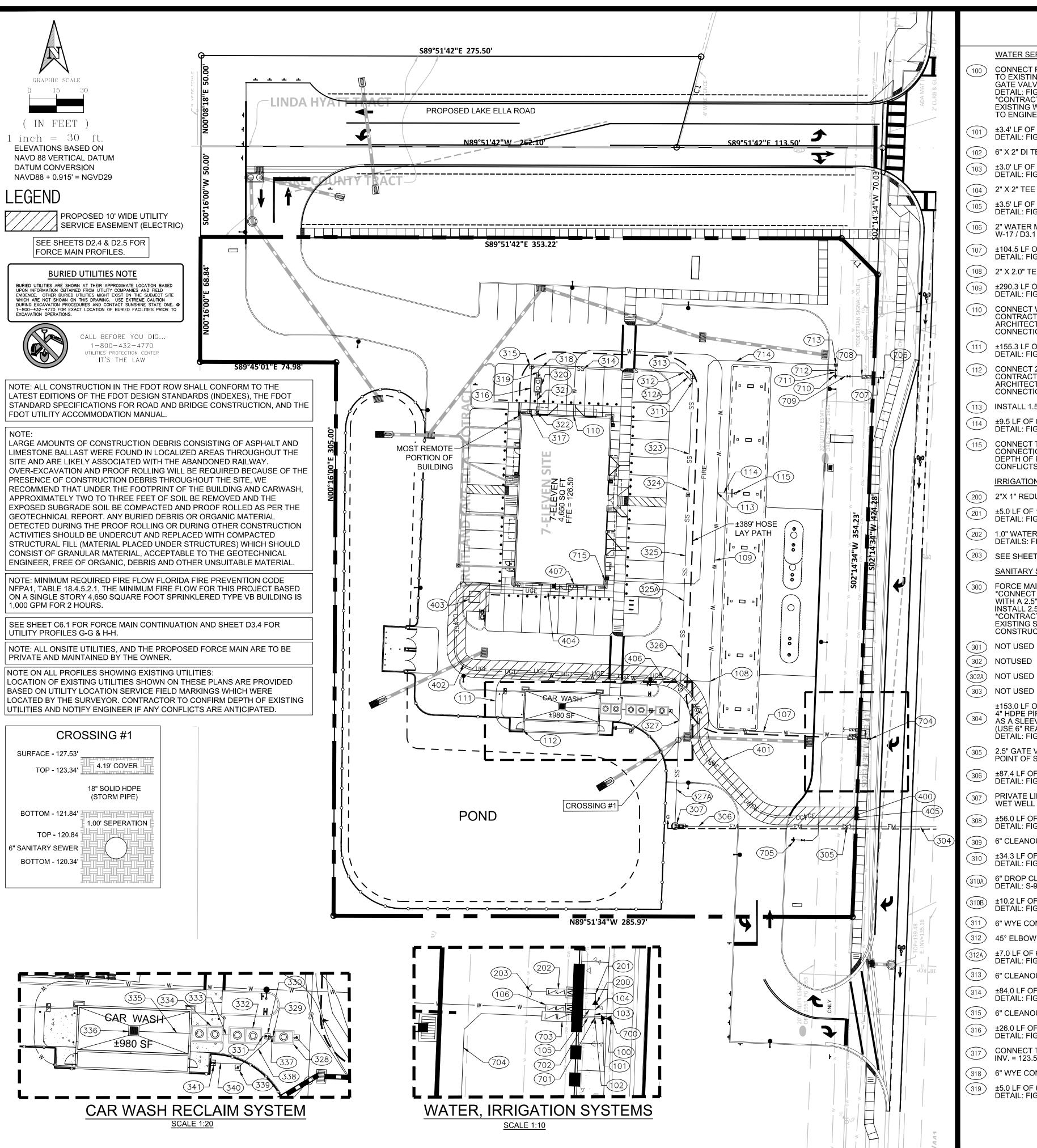
COMMON OAK ENGINEERING 9 EDGEWATER DRIVE, SUITE ORLANDO, FL. 32804 (407)951-5915 RTIFICATE OF AUTHORIZATION: 326

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CITY OF FRUITLAND PARK RAI #1	SJRWMD COMMENTS	FDOT COMMENTS	FDOT ACCESSES COMMENTS	SJRWMD COMMENTS	SJRWMD COMMENTS	OWNER REVISION	CITY OF FRUITI AND PARK COMMENTS
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JEREMY R. ANDERSON, P.E P.E. LICENSE NO. 71636 PROJECT # 221.056 01/28/2022 C5.0 SCALE

1:30 **GRADING PLAN** 



- WATER SERVICE CONNECTION
- CONNECT PROPOSED 6" DI WATER PIPE VIA WET TAP CONNECTION TO EXISTING 8" WATER MAIN WITH A 6" X 8" TAPPING SLEEVE AND 6" DETAIL: FIG. W-1, W-2, W-3, W-5, W-11 / D3.1 \*CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING WATER MAIN BEFORE START OF CONSTRUCTION. REPORT TO ENGINEER IF ANY CONFLICT EXISTS.
- ±3.4' LF OF 6" DI WATER SERVICE PIPE, DETAIL: FIG. G-3 / D3.0
- (102) 6" X 2" DI TEE
- ±3.0' LF OF 2" BLUE PE WATER SERVICE PIPE, DETAIL: FIG. G-3 / D3.0
- ±3.5' LF OF 2" BLUE PE WATER SERVICE PIPE, DETAIL: FIG. G-3 / D3.0
- 2" WATER METER AND 2" RPZ ASSEMBLY, DETAIL:W-9, W-10, W-16,
- 107) ±104.5 LF OF 2" BLUE PE WATER SERVICE PIPE, DETAIL: FIG. G-3/ D3.0
- (108) 2" X 2.0" TEE WITH1.5" REDUCER
- ±290.3 LF OF 1.5" BLUE PE WATER SERVICE PIPE, DETAIL: FIG. G-3 / D3.0
- CONNECT WATER LINE TO STUB-OUT LOCATION FROM STORE. CONTRACTOR SHALL COORDINATE CONNECTION WITH ARCHITECTURAL PLANS FOR LOCATION AND DEPTH OF PROPOSED CONNECTION. REPORT TO ENGINEER IF ANY CONFLICT EXISTS.
- ±155.3 LF OF 2" BLUE PE WATER SERVICE PIPE, DETAIL: FIG. G-3/ D3.0
- CONNECT 2" WATER LINE TO STUB-OUT LOCATION FROM CAR WASH, CONTRACTOR SHALL COORDINATE CONNECTION WITH ARCHITECTURAL PLANS FOR LOCATIONS AND DEPTH OF PROPOSED CONNECTION. REPORT TO ENGINEER IF ANY CONFLICT EXISTS.
- (113) INSTALL 1.5" X 0.5" TEE & ISOLATION VALVE
- ±9.5 LF OF 0.5" BLUE PE WATER SERVICE LINE TO THE FUEL CANOPY,
- CONNECT TO HOSE BIB. CONTRACTOR SHALL COORDINATE CONNECTION WITH ARCHITECTURAL PLANS FOR LOCATION AND DEPTH OF PROPOSED CONNECTION. REPORT TO ENGINEER IF ANY CONFLICTS EXISTS.

# IRRIGATION CONNECTION

- 200 ) 2"X 1" REDUCER
- ±5.0 LF OF 1" BLUE PE WATER SERVICE LINE, DETAIL: FIG. G-3 / D3.0
- 202 ) 1.0" WATER METER & 1.0" RPZ ASSEMBLY
- DETAILS: FIG. W-9, W-10, W-17 / D3.1
- 203 SEE SHEET C7.1 FOR REMAINING IRRIGATION SYSTEM.
- FORCE MAIN CONNECTION \*CONNECT TO EXISTING 2.5" SANITARY FORCE MAIN WITH A 2.5" X 2.5" TAPPING SLEEVE OR FITTING AS REQUIRED INSTALL 2.5" GATE VALVE \*CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING SANITARY CONNECTION BEFORE START OF CONSTRUCTION. REPORT TO ENGINEER IF ANY CONFLICT EXISTS.
- 301 NOT USED
- (302) NOTUSED
- (302A) NOT USED
- (303) NOT USED
- ±153.0 LF OF 2.5" HDPE FORCE MAIN PIPE TO BE INSTALLED WITHIN A 4" HDPE PIPE DIRECTIONAL DRILLED UNDER THE ROADWAY TO ACT AS A SLEEVE FOR THE 2.5" PIPE. MINIMUM SEPARATION OF 80". (USE 6" REAMER) DETAIL: FIG. G-3 / D3.0
- 2.5" GATE VALVE AT THE PROPERTY LINE. CITY OF FRUITLAND PARK POINT OF SERVICE.
- (306) ±87.4 LF OF 2" PVC FORCE MAIN PIPE DETAIL: FIG. G-3 / D3.0
- PRIVATE LIFT STATION, NORTH INV. = 119.86', TOP OF WET WELL ELEVATION = 130.25', DETAIL: SHEET D3.3
- ±56.0 LF OF 6" PVC SANITARY LINE SLOPED AT 1.0% DETAIL: FIG. G-3 / D3.0 (309) 6" CLEANOUT, INV. = 119.10', DETAIL: S-9/ D3.2
- ±34.3 LF OF 6" PVC SANITARY LINE SLOPED AT 1.0%
- DETAIL: FIG. G-3 / D3.0
- 6" DROP CLEAOUT, SOUTH INV. = 122.21', NORTH INV. = 119.44' DETAIL: S-9/ D3.2
- (310B) ±10.2 LF OF 6" PVC SANITARY LINE SLOPED AT 1.0% DETAIL: FIG. G-3 / D3.0
- 311) 6" WYE CONNECTOR
- 312 ) 45° ELBOW
- ±7.0 LF OF 6" PVC SANITARY LINE SLOPED AT 1.0% DETAIL: FIG. G-3 / D3.0
- (313) 6" CLEANOUT, INV. = 122.35', DETAIL: S-9/ D3.2
- ±84.0 LF OF 6" PVC SANITARY LINE SLOPED AT 1.0% DETAIL: FIG. G-3 / D3.0
- 315) 6" CLEANOUT, INV. = 123.24', DETAIL: S-9/ D3.2
- ±26.0 LF OF 6" PVC SANITARY LINE SLOPED AT 1.0% DETAIL: FIG. G-3 / D3.0
- CONNECT TO STUB OUT AT BUILDING WITH TWO-WAY CLEANOUT,
- 317 CONNECT TO STOB COTTON TO STORY OF THE S
- (318) 6" WYE CONNECTOR, INV. = 123.30'
- ±5.0 LF OF 6" PVC SANITARY LINE SLOPED AT 1.0% DETAIL: FIG. G-3 / D3.0

# **UTILITY PLAN NOTES**

- 750 GALLON CONCRETE GREASE INTERCEPTOR INV.: S. CLEANOUT (IN) = 123.60', N. CLEANOUT (OUT) = 123.35', DETAIL: S-15 / D3.2
- ±11.3 LF OF 6" PVC SANITARY LINE SLOPED AT 1.0%
- CONNECT TO STUB OUT AT BUILDING WITH TWO-WAY CLEANOUT, ' INV. = 123.71', DETAIL: 1/ D3.2
- ±62.00 LF OF 6" PVC SANITARY LINE SLOPED AT 1.0% ±62.00 LF OF 0 F V O O 7 ...... DETAIL: FIG. G-3 / D3.0
- ( 324 ) 6" CLEANOUT, INV. = 121.73', DETAIL: S-9/ D3.2
- ±62.00 LF OF 6" PVC SANITARY LINE SLOPED AT 1.0% (MIN)
- DETAIL: FIG. G-3 / D3.0

(325A) 6" CLEANOUT, INV. = 121.11', DETAIL: S-9/ D3.2

- ±65.71 LF OF 6" PVC SANITARY LINE SLOPED AT 1.0% (MIN)
- DETAIL: FIG. G-3 / D3.0
- 2-WAY CLEANOUT, NORTH INV=120.45' NORTHWEST INV=124.18', DETAIL: S-9/ D3.2
- ±58.28 LF OF 6" PVC SANITARY LINE SLOPED AT 1.0% (MIN) DETAIL: FIG. G-3 / D3.0
- 750 GALLON OIL WATER SEPARATOR TANK. INVERTS: W. (IN) = 124.50',
- E. (OUT) = 124.25', ALSO REFER TO ARCHITECTURAL PLANS
- ±2.2 LF OF 6" PVC SANITARY LINE SLOPED AT 1.0% (MIN) DETAIL: FIG. G-3 / D3.0
- (330) 6" TWO-WAY CLEANOUT, INV. = 124.52', DETAIL: 1 / D3.2 ±2.2 LF OF 6" PVC SANITARY LINE SLOPED AT 1.0% (MIN)
- DETAIL: FIG. G-3 / D3.0 1,500 GALLON RECLAIM TANK 2
- W. INV. (IN) = 124.79', E. INV. (OUT) = 124.54'
  \*ALSO REFER TO ARCHITECTURAL PLANS
- ±3.0 LF OF 6" PVC SANITARY LINE SLOPED AT 1.0% DETAIL: FIG. G-3 / D3.0
- 1,500 GALLON RECLAIM TANK 1 W. INV. (IN) = 125.07', E. INV. (OUT) = 124.82' \*ALSO REFER TO ARCHITECTURÁL PLANS
- ±19.1 LF OF 6" PVC SANITARY LINE SLOPED AT 1.0% (MIN) 335 DETAIL: FIG. G-3 / D3.0
- CONNECT TO SAND TRAP STRUCTURE, INV. = 125.26' ALSO REFER TO ARCHITECTURAL PLANS
- (337) WYE CONNECTOR, INV= 124.51'
- ±17.0 LF OF 6" PVC SANITARY LINE SLOPED AT 1.0% (MIN), DETAIL: FIG. G-3 / D3.0
- (339) 6" CLEANOUT, INV. = 124.68', DETAIL: S-9/ D3.2
- ±11.8 LF OF 6" PVC SANITARY LINE SLOPED AT 1.0% (MIN) DETAIL: FIG. G-3 / D3.0
- CONNECT WITH TWO-WAY CLEANOUT TO STUB OUT FROM CAR WASH, INV. = 124.80', DETAIL: 1 / D3.2
  - COORDINATE ELECTRIC & TELEPHONE SERVICE CONNECTION WITH APPROPRIATE SERVICE PROVIDERS. REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFIC CONNECTION LOCATIONS AND REQUIREMENTS.
- (400) PROPOSED APPROXIMATE ELECTRICAL SERVICE CONNECTION POINT.
- (401) 10' WIDE UTILITY EASEMENT FOR ELECTRICAL SERVICE
- ±331.4' LF OF OF UNDERGROUND ELECTRICAL SERVICE LINE TO GROUND MOUNTED TRANSFORMER.
- (403) PROPOSED GROUND MOUNTED TRANSFORMER.
- (404) ±59.7' LF OF OF UNDERGROUND ELECTRICAL SERVICE LINE TO BUILDING.
- 405) PROPOSED APPROXIMATE TELEPHONE SERVICE CONNECTION POINT.
- (406) ±394.9' LF OF UNDERGROUND TELEPHONE SERVICE LINE TO BUILDING.
  - APPROXIMATE ELECTRICAL AND TELEPHONE CONNECTION TO BUILDING, SEE ARCHITECTURAL PLANS.
- (700) 6" X 6" TEE
- CONNECT PROPOSED 6" DI PIPE TO PROPOSED 6" X 2" TEE.

FIRE SERVICE CONNECTIONS

- (702) ±4.3 LF OF PROPOSED 6" DI PIPE, DETAIL: FIG. G-3 / D3.0
- (703) BACK FLOW PREVENTER, DETAIL: FIG. W-16 / D3.2 (704) ±81.4 LF OF PROPOSED 6" DI PIPE, DETAIL: FIG. G-3 / D3.0
- CITY OF FRUITLAND PARK APPROVED FIRE HYDRANT & GATE VALVE, DETAIL: FIG. W-11 / D3.1
- CONNECT PROPOSED 6" DI WATER PIPE VIA WET TAP CONNECTION TO EXISTING 8" WATER MAIN WITH A 6" X 8" TAPPING SLEEVE AND 6" GATE VALVE. DETAIL: FIG. W-1, W-2, W-3, W-5, W-11 / D3.1 \*CONTRACTOR SHALL VÉRIFÝ THỂ LOCATION AND DEPTH OF EXISTING WATER MAIN BEFORE START OF CONSTRUCTION. REPORT TO ENGINEER IF ANY CONFLICT EXISTS.
- (707) ±7.45 LF OF PROPOSED 6" DI PIPE, DETAIL: FIG. G-3 / D3.0
- (708) BACK FLOW PREVENTER, DETAIL: FIG. W-16 / D3.2
- (709) ±14.54 LF OF PROPOSED 6" DI PIPE, DETAIL: FIG. G-3 / D3.0
- CITY OF FRUITLAND PARK APPROVED FIRE HYDRANT & GATE VALVE, 710 DETAIL: FIG. W-11 / D3.1
- (711) ±6.0 LF OF PROPOSED 6" DI PIPE, DETAIL: FIG. G-3 / D3.0
- (712) 6" X 4" REDUCER, 4" CHECK VALVE & 4" FDC.
- (713) PROPOSED FDC CONNECTION
- (714) ±242.60 LF OF PROPOSED 4" DI PIPE, DETAIL: FIG. G-3 / D3.
- CONNECT TO STUB-OUT AT THE BUILDING (SEE ARCHITECTURAL PLANS) NOTE: "FIRE SPRINKLER MAIN POINT OF CONNECTION (THIS IS WHERE THE LINE IS SOLELY USED FOR FIRE SPRINKLERS) MUST TERMINATE 1- FOOT ABOVE FINISH FLOOR AS REQUIRED PER FS 633.539."



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COMMON OAK ENGINEERING 9 EDGEWATER DRIVE, SUITE ORLANDO, FL. 32804 (407)951-5915

RTIFICATE OF AUTHORIZATION: 32 EN

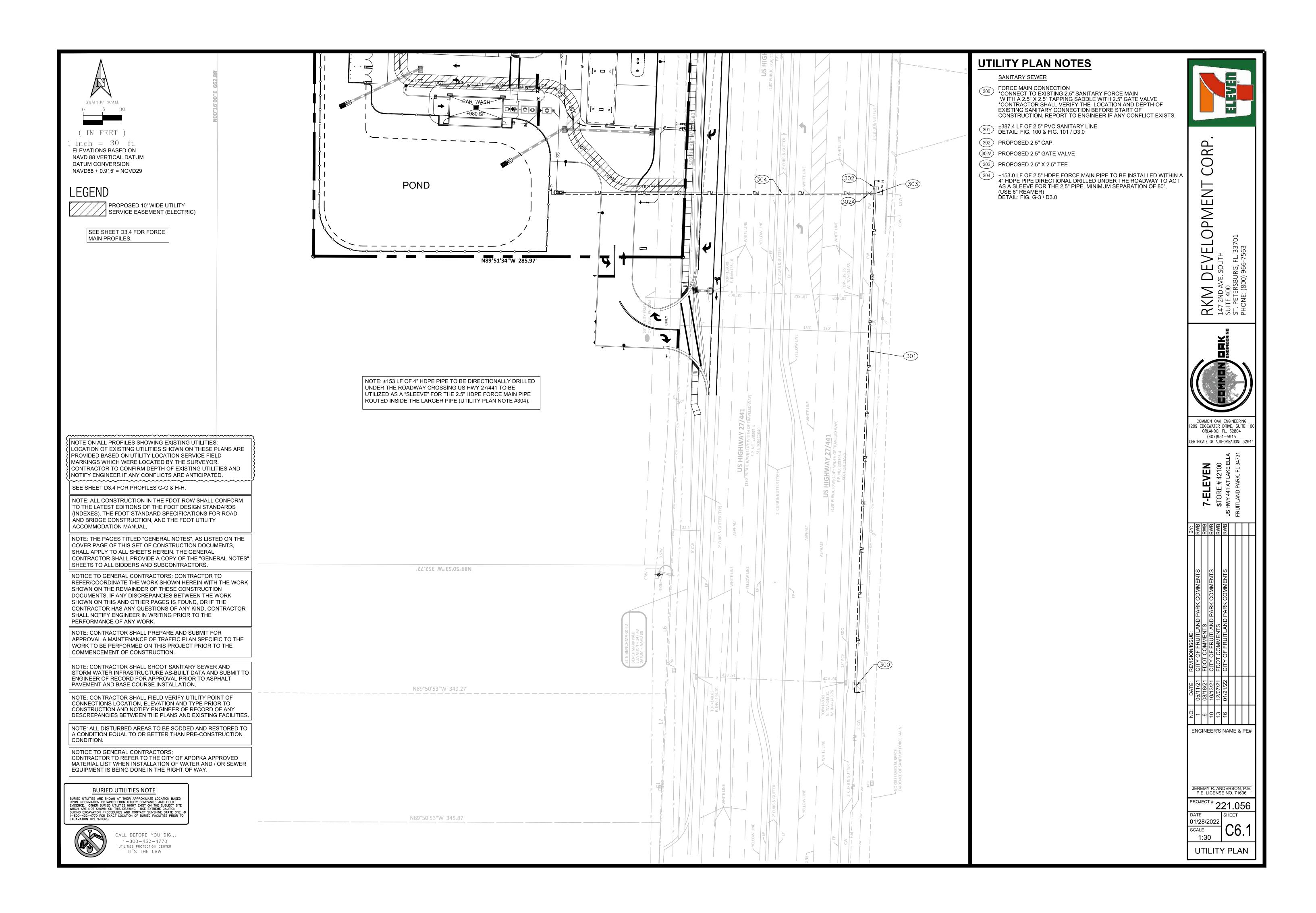
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	06/30/21	CITY OF FRUITLAND PARK RAI #1	픠
	08/17/21	CITY OF FRUITLAND PARK COMMENTS	RWB
	08/18/21	FDOT COMMENTS	RWB
	10/13/21	CITY OF FRUITLAND PARK COMMENTS	RWB
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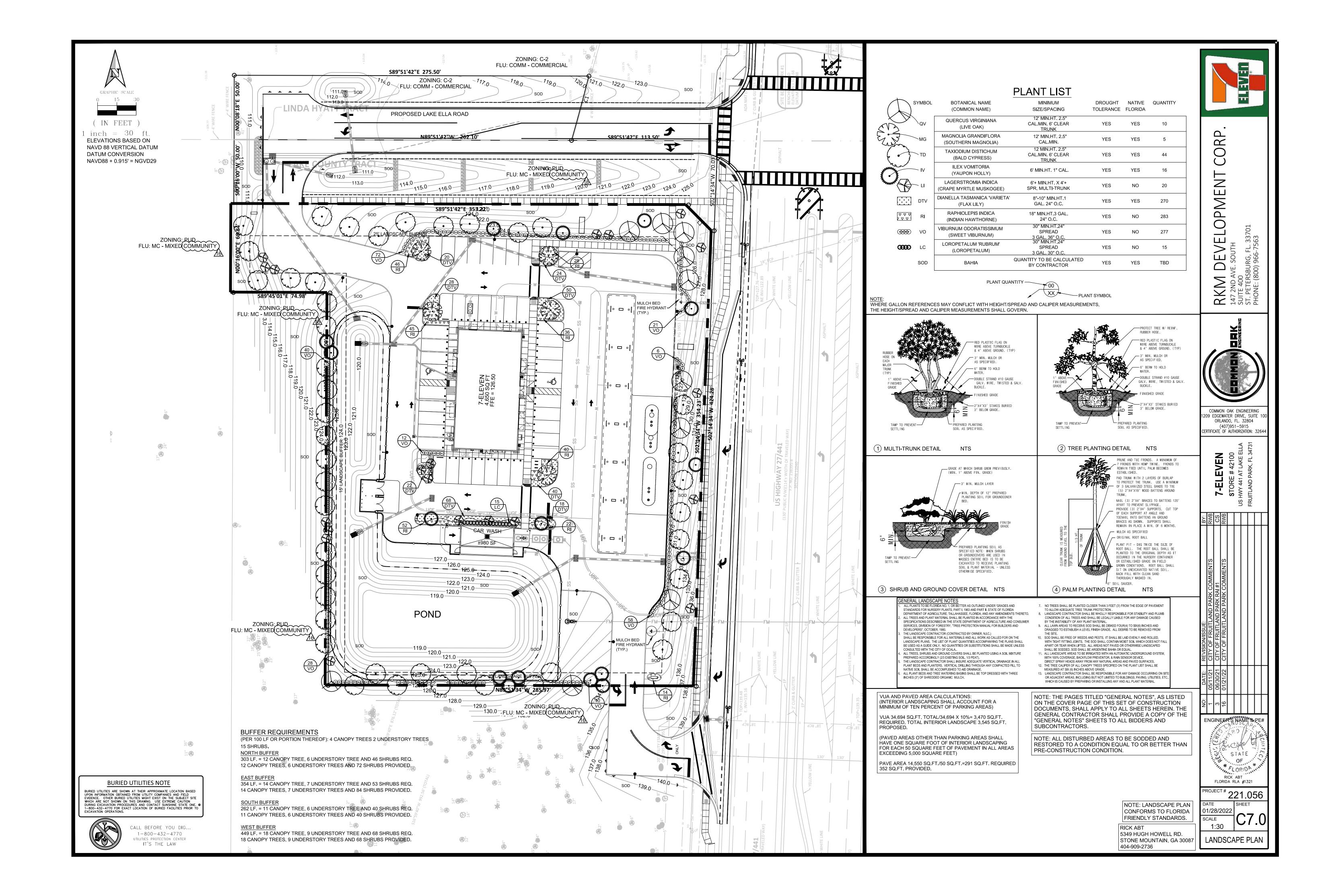
JEREMY R. ANDERSON, P.E. P.E. LICENSE NO. 71636

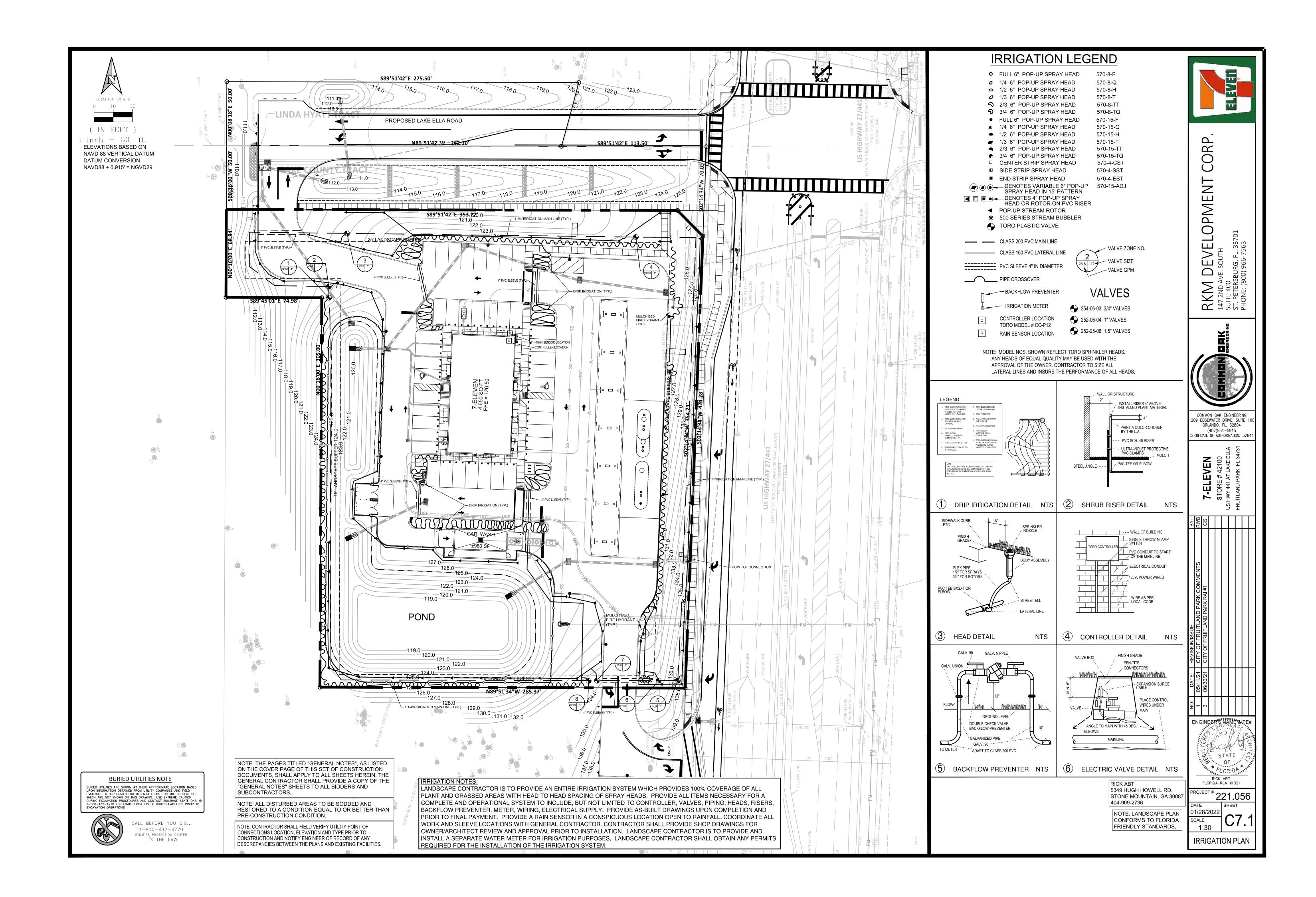
ENGINEER'S NAME & PE#

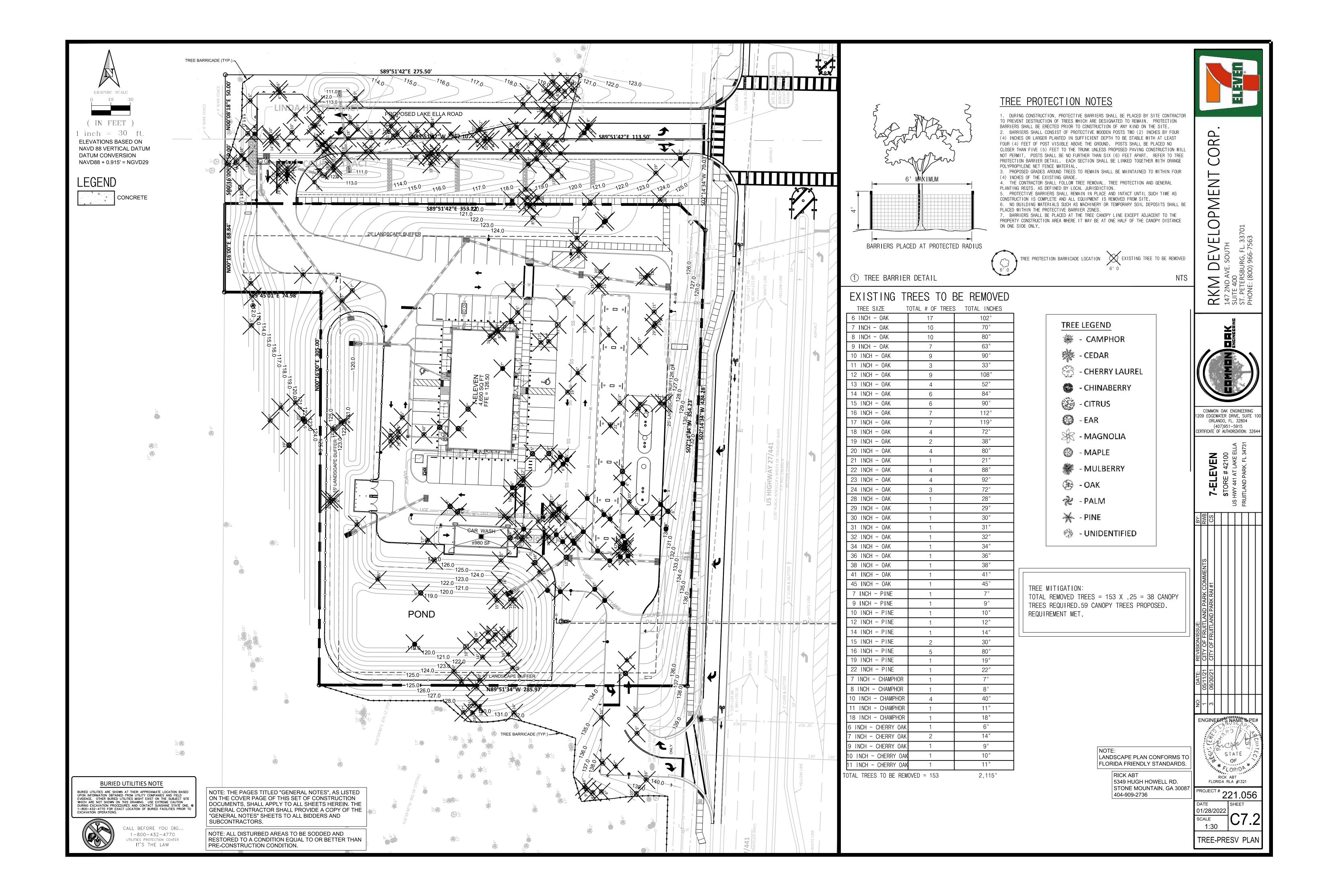
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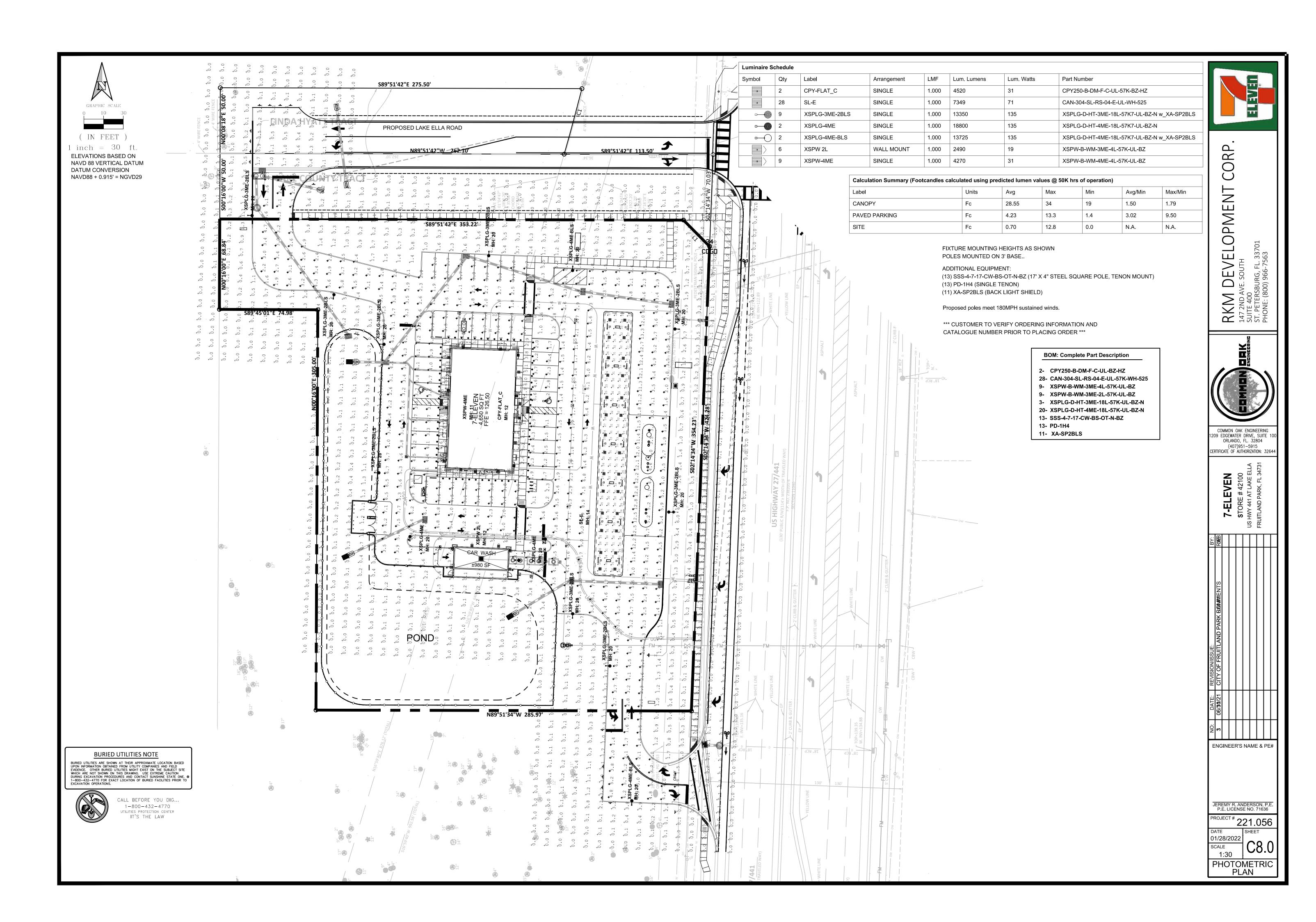
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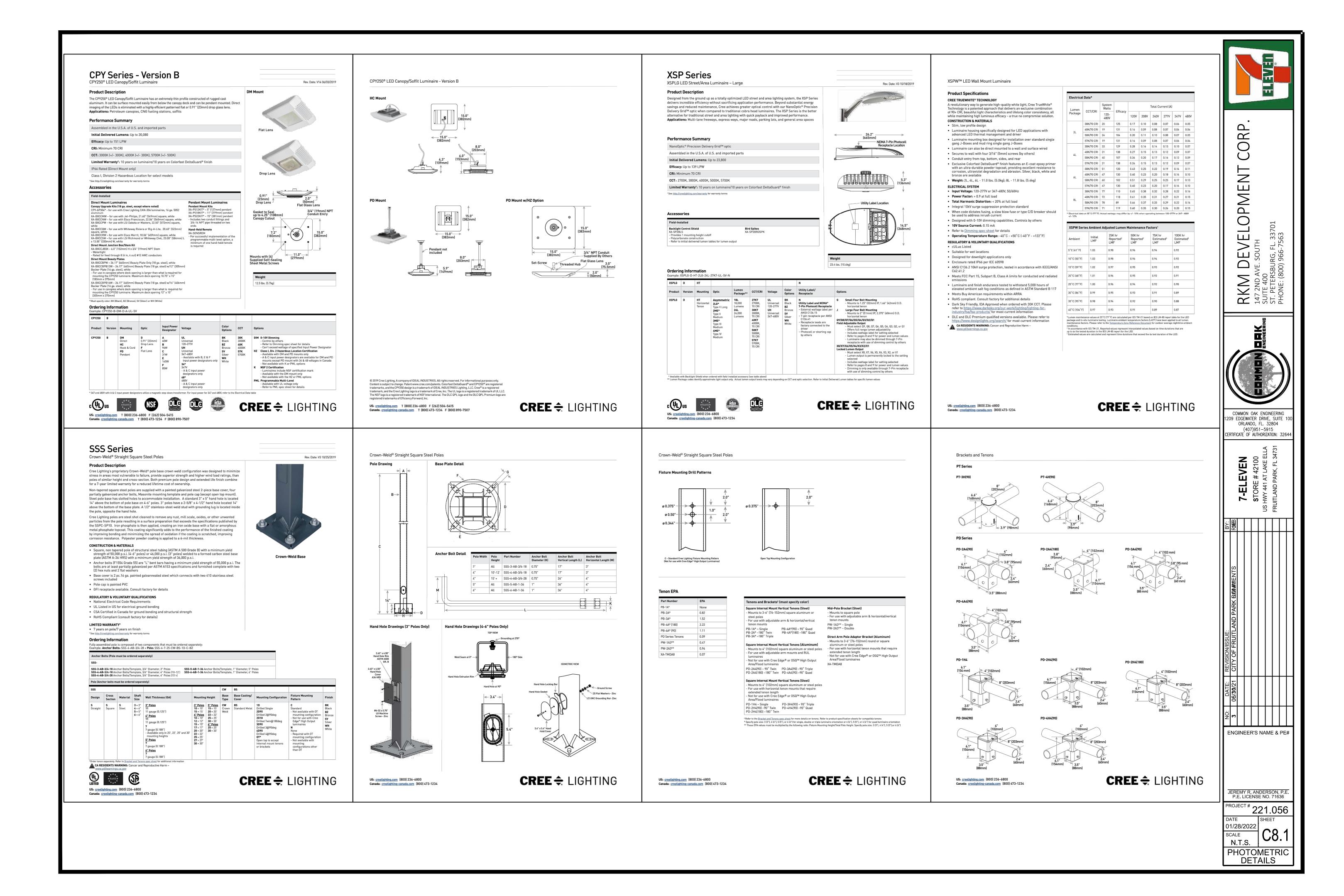


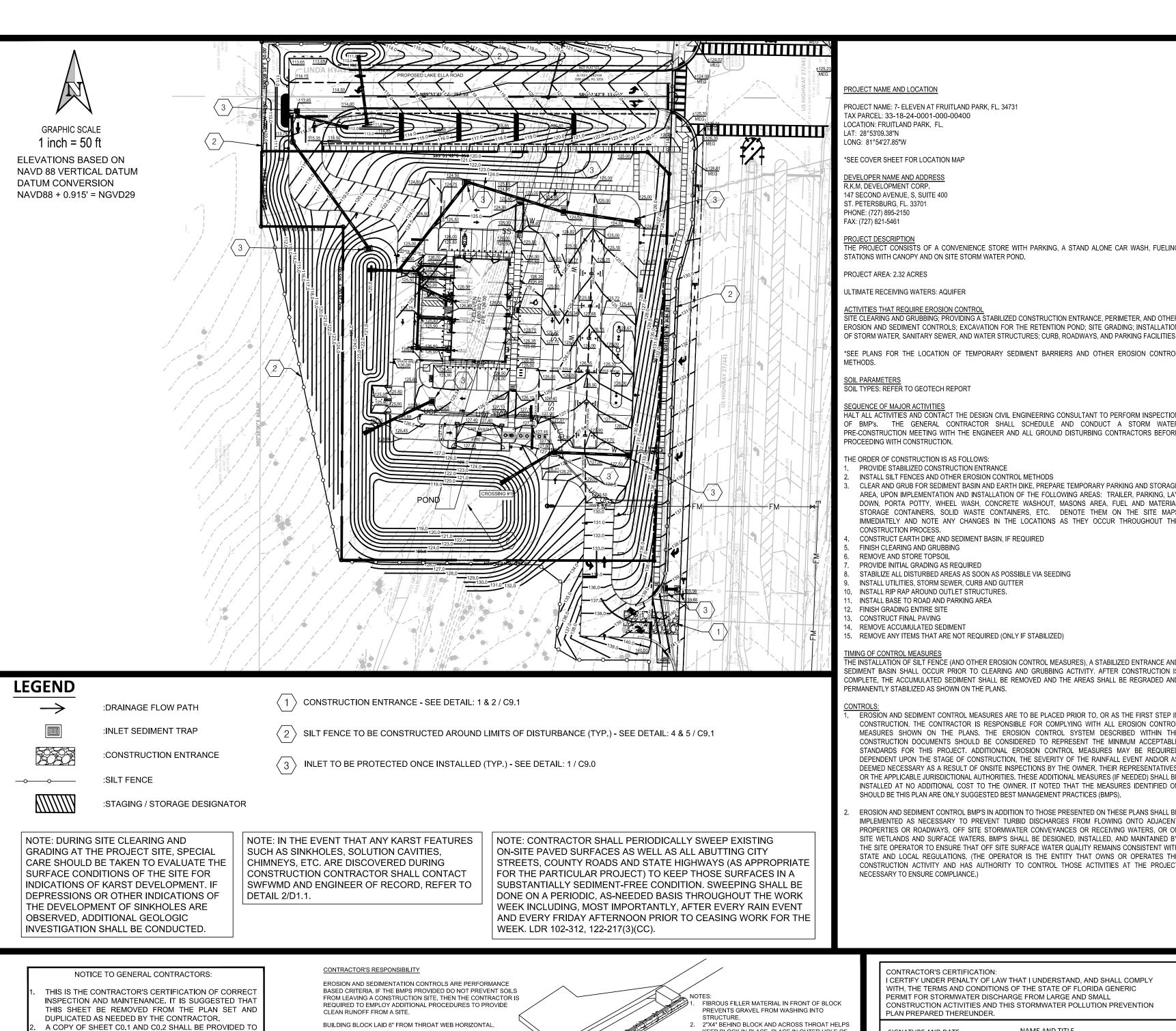












ONTRACTOR'S RESPONSIBILITY
ROSION AND SEDIMENTATION CONTROLS ARE PERFORMANCE BASED

TO EMPLOY ADDITIONAL PROCEDURES TO PROVIDE CLEAN RUNOFF FROM

THE TOP OF THE FRAME (PONDING HEIGHT) MUST BE WELL BELOW

THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM

A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE

CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

2" X 4" WOOD FRAME

FABRIC AT CORNERS

MIRAFI OR APPROVED EROSION CONTROL FABRIC SHALL BE

DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL,

NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%) USE 2"X4" WOOD OR EQUIVALENT METAL STAKES.

BYPASSING THE INLET

WRAPPED AROUND GRATE.

OF THE STRUCTURE.

INSTALL 2"X4" WOOD TOP FRAME TO INSURE STABILITY.

THE METHOD SHALL NOT APPLY TO INLETS RECEIVING

CRITERIA. IF THE BMPS PROVIDED DO NOT PREVENT SOILS FROM LEAVING A CONSTRUCTION SITE, THEN THE CONTRACTOR IS REQUIRED

ALL BIDDERS AND SUB-CONTRACTORS

<u>PLAN VIEW</u>

ABRIC SECURELY TO

2"X4" WOOD FRAMI

VERLAPPING FABRI

TO NEXT STAKE.

≠> 4≥

TOP FRAME NECESSARY

**INLET PROTECTION NTS** 

FOR STABILITY

4 SIDES OF D.I.

- 2"X4" WOOD FRAME

ROJECT NAME AND LOCATION PROJECT NAME: 7- ELEVEN AT FRUITLAND PARK, FL. 34731 TAX PARCEL: 33-18-24-0001-000-00400 LOCATION: FRUITLAND PARK, FL. LAT: 28°53'09.38"N LONG: 81°54'27.85"W

\*SEE COVER SHEET FOR LOCATION MAP

R.K.M. DEVELOPMENT CORP 147 SECOND AVENUE, S, SUITE 400 ST. PETERSBURG, FL. 33701 PHONE: (727) 895-2150

THE PROJECT CONSISTS OF A CONVENIENCE STORE WITH PARKING, A STAND ALONE CAR WASH, FUELING STATIONS WITH CANOPY AND ON SITE STORM WATER POND.

ULTIMATE RECEIVING WATERS: AQUIFER

ITE CLEARING AND GRUBBING; PROVIDING A STABILIZED CONSTRUCTION ENTRANCE, PERIMETER, AND OTHE EROSION AND SEDIMENT CONTROLS: EXCAVATION FOR THE RETENTION POND: SITE GRADING: INSTALLATION

\*SEE PLANS FOR THE LOCATION OF TEMPORARY SEDIMENT BARRIERS AND OTHER EROSION CONTROL

<u>SOIL PARAMETERS</u> SOIL TYPES: REFER TO GEOTECH REPORT

HALT ALL ACTIVITIES AND CONTACT THE DESIGN CIVIL ENGINEERING CONSULTANT TO PERFORM INSPECTION OF BMP's. THE GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT A STORM WATER PRE-CONSTRUCTION MEETING WITH THE ENGINEER AND ALL GROUND DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.

THE ORDER OF CONSTRUCTION IS AS FOLLOWS: PROVIDE STABILIZED CONSTRUCTION ENTRANCE

INSTALL SILT FENCES AND OTHER EROSION CONTROL METHODS CLEAR AND GRUB FOR SEDIMENT BASIN AND EARTH DIKE. PREPARE TEMPORARY PARKING AND STORAGE AREA. UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LA' DOWN, PORTA POTTY, WHEEL WASH, CONCRETE WASHOUT, MASONS AREA, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC. DENOTE THEM ON THE SITE MAPS IMMEDIATELY AND NOTE ANY CHANGES IN THE LOCATIONS AS THEY OCCUR THROUGHOUT THI

CONSTRUCTION PROCESS CONSTRUCT EARTH DIKE AND SEDIMENT BASIN, IF REQUIRED FINISH CLEARING AND GRUBBING

REMOVE AND STORE TOPSOIL PROVIDE INITIAL GRADING AS REQUIRED

STABILIZE ALL DISTURBED AREAS AS SOON AS POSSIBLE VIA SEEDING INSTALL UTILITIES, STORM SEWER, CURB AND GUTTER

INSTALL RIP RAP AROUND OUTLET STRUCTURES. INSTALL BASE TO ROAD AND PARKING AREA

FINISH GRADING ENTIRE SITE CONSTRUCT FINAL PAVING

REMOVE ACCUMULATED SEDIMENT REMOVE ANY ITEMS THAT ARE NOT REQUIRED (ONLY IF STABILIZED)

KEEP BLOCK IN PLACE. PLACE IN OUTER HOLE OF

TEMPORARY INLET SEDIMENT FILTER TO BE

INSTALLED ON ALL PAVED CATCH BASINS OR

STORM INLETS. INLET FILTER TO BE SIMILAR

O "STREAMGUARD" AS MANUFACTURED BY ORMWATER SERVICES CORPORATION

MANUFACTURED BY ATLANTIC CONSTRUCTIO

(206-767-0441) OR "SILTSACK" AS

FABRICS, INC. (800-448-3636).

CLEAN FILTER AS NEEDED.

DUMP STRAP

SPACER BLOCK.

8"-10" DIAMETER FILLED WITH 3" STONE.

SPACER BLOCK

<del>- Ho</del>verflow

TEMPORARY INLET

SEDIMENT FILTER

RESTRAINT

ROPE 2" FLAT

POLYPROPYLENF

GRATE -

ISOMETRIC VIEW

**CURB INLET SEDIMENT TRAP** 

INSTALLATION

DETAIL

**BAG DETAIL** 

V—ROLL OF 12 1/2" GAUGE WELDED FENCE, 2"X2" MESH,

<u>TIMING OF CONTROL MEASURES</u> THE INSTALLATION OF SILT FENCE (AND OTHER EROSION CONTROL MEASURES), A STABILIZED ENTRANCE AND SEDIMENT BASIN SHALL OCCUR PRIOR TO CLEARING AND GRUBBING ACTIVITY. AFTER CONSTRUCTION IS COMPLETE, THE ACCUMULATED SEDIMENT SHALL BE REMOVED AND THE AREAS SHALL BE REGRADED AND PERMANENTLY STABILIZED AS SHOWN ON THE PLANS.

EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. THE EROSION CONTROL SYSTEM DESCRIBED WITHIN THI CONSTRUCTION DOCUMENTS SHOULD BE CONSIDERED TO REPRESENT THE MINIMUM ACCEPTABLE STANDARDS FOR THIS PROJECT, ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDENT LIPON THE STAGE OF CONSTRUCTION THE SEVERITY OF THE RAINFALL EVENT AND/OR A DEEMED NECESSARY AS A RESULT OF ONSITE INSPECTIONS BY THE OWNER, THEIR REPRESENTATIVE OR THE APPLICABLE JURISDICTIONAL AUTHORITIES. THESE ADDITIONAL MEASURES (IF NEEDED) SHALL BI INSTALLED AT NO ADDITIONAL COST TO THE OWNER. IT NOTED THAT THE MEASURES IDENTIFIED ON SHOULD BE THIS PLAN ARE ONLY SUGGESTED BEST MANAGEMENT PRACTICES (BMPS).

EROSION AND SEDIMENT CONTROL BMP'S IN ADDITION TO THOSE PRESENTED ON THESE PLANS SHALL BI IMPLEMENTED AS NECESSARY TO PREVENT TURBID DISCHARGES FROM FLOWING ONTO ADJACENT PROPERTIES OR ROADWAYS, OFF SITE STORMWATER CONVEYANCES OR RECEIVING WATERS, OR C SITE WETLANDS AND SURFACE WATERS. BMP'S SHALL BE DESIGNED. INSTALLED. AND MAINTAINED B' THE SITE OPERATOR TO ENSURE THAT OFF SITE SURFACE WATER QUALITY REMAINS CONSISTENT WITH STATE AND LOCAL REGULATIONS. (THE OPERATOR IS THE ENTITY THAT OWNS OR OPERATES THE CONSTRUCTION ACTIVITY AND HAS AUTHORITY TO CONTROL THOSE ACTIVITIES AT THE PROJECT NECESSARY TO ENSURE COMPLIANCE.)

TEMS REQUIRING POLLUTION PREVENTION

THE FOLLOWING ITEMS ARE EXPECTED TO BE PRESENT ON THE PROJECT SITE: CLEANING SUPPLIES □ DETERGENTS FERTILIZERS ☐MASONRY BLOCK/BRICKS METAL PIECES ☐ PETROLEUM BASED PRODUCTS □wood

I'HE FOLLOWING ARE NON-STORM WATER SOURCES THAT WILL BE ENCOUNTERED AT THE SITE AND SHOULD BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE:

UNCONTAMINATED GROUNDWATER EXPOSED DURING EXCAVATION

WATER FROM WATER LINE FLUSHING

PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED). PILL PREVENTION AND CONTROL

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

# RESPONSIBLE STEWARDSHIP

SUPERINTENDENT SHALL INSPECT PROJECT AREA DAILY FOR PROPER STORAGE, USE, AND DISPOSAL C

STORE ONLY ENOUGH MATERIAL ON SITE FOR PROJECT COMPLETION.

ALL SUBSTANCES SHOULD BE USED BEFORE DISPOSAL OF CONTAINER. ALL CONSTRUCTION MATERIALS STORED SHALL BE ORGANIZED AND IN THE PROPER CONTAINER AND IF POSSIBLE,

STORED UNDER A ROOF OR PROTECTIVE COVER. PRODUCTS SHALL NOT BE MIXED UNLESS DIRECTED BY THE MANUFACTURER.

ALL PRODUCTS SHALL BE USED AND DISPOSED OF ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

MATERIALS SHOULD BE KEPT IN ORIGINAL CONTAINER WITH LABELS UNLESS THE ORIGINAL CONTAINERS CANNOT BE RESEALED. IF ORIGINAL CONTAINERS CANNOT BE USED, LABELS AND PRODUCT INFORMATION SHALL BE SAVED.

PROPER DISPOSAL PRACTICES SHALL ALWAYS BE FOLLOWED IN ACCORDANCE WITH MANUFACTURER AND LOCAL/STATE REGULATIONS.

PETROLEUM PRODUCTS MUST BE STORED IN PROPER CONTAINERS AND CLEARLY LABELED. VEHICLES CONTAINING PETROLEUM PRODUCTS SHALL BE PERIODICALLY INSPECTED FOR LEAKS, PRECAUTIONS SHALL BE TAKEN TO AVOID LEAKAGE OF PETROLEUM PRODUCTS ON SITE.

STORM WATER. FERTILIZERS SHALL BE STORED IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS. PAINT CONTAINERS SHALL BE SEALED AND STORED WHEN NOT IN USE. EXCESS PAINT MUST BE DISPOSED OF IN AN

CONCRETE TRUCKS SHALL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH

THE MINIMUM AMOUNT OF FERTILIZER SHALL BE USED AND MIXED INTO THE SOIL IN ORDER TO LIMIT EXPOSURE TO

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS

SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP: SPILL CLEANUP INFORMATION SHALL BE POSTED ON SITE TO INFORM EMPLOYEES ABOUT CLEANUP PROCEDURES

THE FOLLOWING CLEAN-UP EQUIPMENT MUST BE KEPT ON-SITE NEAR THE MATERIAL STORAGE AREA: GLOVES MOPS, RAGS, BROOMS, DUST PANS, SAND, SAWDUST, LIQUID ABSORBER, GOGGLES, AND TRASH CONTAINERS.

ALL SPILLS SHALL BE CLEANED UP AS SOON AS POSSIBLE. WHEN CLEANING A SPILL, THE AREA SHOULD BE WELL VENTILATED AND THE EMPLOYEE SHALL WEAR PROPER

PROTECTIVE COVERING TO PREVENT INJURY.

TOXIC SPILLS MUST BE REPORTED TO THE PROPER AUTHORITY REGARDLESS OF THE SIZE OF THE SPILL.

AFTER A SPILL, THE PREVENTION PLAN SHALL BE REVIEWED AND CHANGED TO PREVENT FURTHER SIMILAR SPILLS FROM OCCURRING. THE CAUSE OF THE SPILL, MEASURES TO PREVENT IT, AND HOW TO CLEAN THE SPILL UP SHALL

FDEP NPDES IDENTIFICATION NUMBER:

RAIN DATA

THE SUPERINTENDENT SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR AND IS RESPONSIBLE FOR THE DAY TO DAY SITE OPERATIONS. THE SUPERINTENDENT ALSO OVERSEES THE SPILL PREVENTION PLAN AND SHALL BE RESPONSIBLE FOR EDUCATING THE EMPLOYEES ABOUT SPILL PREVENTION AND CLEANUP PROCEDURES.

STORMWATER POLLUTION PREVENTION PLAN INSPECTION REPORT FORM

(SEE BELOW)

S.W.P.P.P. IMPLEMENTATION UPDATES AND AMENDMENTS

THE CONTRACTOR MUST UPDATE THE S.W.P.P.P NCLUDING THE JOBSITE BINDER AND SITE MAPS D REFLECT THE PROGRESS OF CONSTRUCTION ACTIVITIES AND GENERAL CHANGES TO PROJECT ITE. UPDATES SHALL BE MADE DAILY TO TRACK

PROGRESS WHEN ANY OF THE FOLLOWING ACTIVITIES OCCUR; BMP INSTALLATION, MODIFICATION OR REMOVAL, CONSTRUCTION ACTIVITIES (E.G. PAVING, STORM SEWER,

INSTALLATION, FOOTING INSTALLATION, ETC.) CLEARING, GRUBBING OR GRADING, OR TEMPORARY OR PERMANENT STABILIZATION.

THE GENERAL CONTRACTOR MUST SUBMIT A REQUEST FOR INFORMATION (RFI) TO THE DESIGN ENGINEER AND OBTAIN WRITTEN APPROVAL FROM THE DESIGN ENGINEER BEFORE DOING ANY OF THE

MODIFYING EROSION OR SEDIMENT CONTROL BMPS (SUBSTITUTIONS ARE TYPICALLY ONLY APPROVED IF SPECIFIED MATERIALS ARE NOT AVAILABLE OR THERE IS A VALID REASON THE SPECIFIED BMP WILL NOT WORK.)

ADDING/DELETING EROSION OR SEDIMENT CONTROL BMPS. MODIFYING THE S.W.P.P. IMPLEMENTATION SEQUENCE

PERFORMING ANY ACTIONS OR IN ANY MANNER THAT CONTRARY TO THE S.W.P.P.P.

HE CONTRACTOR MAY MODIFY OR ADD ADDITIONAL BMPS. WITHOUT THE DESIGN ENGINEER APPROVA N AN EMERGENCY SITUATION TO PREVENT SEDIMENT DISCHARGE OR PROTECT WATER QUALIT HOWEVER. THE GC MUST NOTIFY THE DESIGN ENGINEER AS SOON AS PRACTICAL AS THEIR ACTIONS T DISCUSS THE NEED FOR ADDITIONAL OR SUPPLEMENTAL MEASURES AND TO OBTAIN THE REQUIRE APPROVALS. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE TO ENSURE COMPLIANCE WITH THE PERMIT AND PROTECTION OF DOWNSTREAM WATER QUALITY

AMENDING THE S.W.P.P.P. DOES NOT MEAN THAT IT HAS TO BE REPRINTED. IT IS ACCEPTABLE TO AD ADDENDA, SKETCHES, NEW SECTIONS, DETAILS, AND/OR REVISED DRAWINGS THAT HAVE THE DESIGI ENGINEERS NAME IN PRINT, ARE STAMPED, SIGNED, DATED, AND ARE ACCOMPANIED BY WRITTEN COP OF THE ASSOCIATED RFI AND IT'S RESPONSE FROM THE DESIGN ENGINEER. ENGINEERED ITEMS MUST BE SIGNED AND STAMPED BY THE CEC OF RECORD FOR THE PROJECT.

# NSPECTION AND MAINTENANCE NOTES

N.P.D.E.S. PERMIT COMPLIANCE REQUIRES INSPECTIONS EVERY 7 CALENDAR DAYS BY A NPDES QUALIFIED INSPECTOR AS PERIODIC INSPECTIONS WITHIN 24 HOURS OF ANY RAINFALL EVENT (OF EQUIVALENT SNOWFALL EVENT) OF 0.5 INCHES OR GREATER. THESE INSPECTIONS MAY RESULT IN RECOMMENDATIONS FOR ROUTIŃE MAINTENANCE OF THE SOIL EROSION CONTROL DEVICES, AS WELL AS FURTHER MAINTENANCE AS OUTLINED BELOW.

THROUGHOUT THE CONSTRUCTION PERIOD, ALL MUD/SILT TRACKED ONTO EXISTING FDOT ROADS FROM THE SITE DUE TO CONSTRUCTION SHALL BE IMMEDIATELY REMOVED BY THE CONTRACTOR.

CATCH BASIN INLET AND CONCRETE FLUME FILTERS SHALL BE MAINTAINED CLEAN AT ALL TIMES THROUGHOUT THE CONSTRUCTION PERIOD. WEEKLY INSPECTIONS WILL BE PERFORMED EVERY 7 CALENDAR DAYS. IF A FILTER HAS HOLES OR IS INUNDATED WITH SEDIMENT, THE FILTER WILL REQUIRE REPLACEMENT

CONSTRUCTION ACCESS AND TRACKING MAT MUST BE MAINTAINED AS NECESSARY. REPLENISH CRUSHED AGGREGATE IF PRESENT LAYER IS FILLED WITH SEDIMENT, POOLING WATER OR HAS RUTS. A NEW LAYER MAY BE ADDED IF OLD LAYERS BECOME COMPACTED.

SILT FENCE IS TO BE INSPECTED DAILY BY CONTRACTOR AND EVERY 7 CALENDAR DAYS BY NPDES QUALIFIED INSPECTOR, IF REPAIRS OR REPLACEMENT IS NECESSARY, IT SHALL BE PERFORMED. IMMEDIATELY. THE SILT FENCE SHOULD BE TRENCHED IN, BACK-FILLED, AND STAPLED OR STAKED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS, MAINTENANCE INCLUDES THE REMOVING OF BUILT-UP SEDIMENT, WHEN THE SEDIMENT ACCUMULATES TO 1/3 OF THE HEIGHT OF THE FENCE. CONTRACTOR MAY HAVE TO REMOVE, REPLACE, RETRENCH, OR RE-BACKFILL THE FENCE IF IT FAILS. IT WOULD ALSO BE NECESSARY TO REINSTALL IF ANY PORTION OF THE FENCING WAS DAMAGED BY CONSTRUCTION MACHINERY.

SEEDING OR RESEEDING MAY BE REQUIRED IMMEDIATELY TO AREAS WHICH HAVE BEEN DAMAGED

REMOVE ANY VISIBLE SEDIMENT FROM THE POND BOTTOM TO KEEP THE BASIN DESIGNED

THE CONTRACTOR SHALL CONTINUOUSLY ENSURE THAT THE PERIMETER OF THE SITE, INCLUDING CONSTRUCTION ENTRANCES, IS SECURED FROM ALLOWING DEBRIS TO LEAVE THE SITE DUE TO CONSTRUCTION ACTIVITY OR RAINFALL EVENTS, A WEEKLY LOG SHALL BE UPDATED AND KEPT ON-SITE IN ACCORDANCE WITH THE NPDES PERMIT, BY BIDDING DOCUMENTS CONTRACTOR ACKNOWLEDGES HE/SHE IS AWARE OF NPDES GUIDELINES AND POLICIES AS WELL AS BEST MANAGEMENT PRACTICES AND ASSUMES SOLE RESPONSIBILITY FOR FINES IMPOSED BY GOVERNMENTAL AGENCIES DUE TO VIOLATIONS.

THE DISCHARGE OF GROUNDWATER PRODUCED THROUGH DEWATERING, TO SURFACE WATERS, OR ANY PORTION OF THE MS4 WILL REQUIRE SEPARATE PERMITTING FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP). PERMIT(S) SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF DEWATERING.

PRIOR TO DEMOLITION OF EXISTING ON SITE STRUCTURES AN ASBESTOS SURVEY AND/OR ASBESTOS NOTIFICATION MAY BE REQUIRED.

CAUSE OF THE DISCHARGE AND CORRECTIVE ACTIONS TAKEN

NOTE: THIS IS AN EXAMPLE OF AN INSPECTION LOG AND IS GIVEN FOR REFERENCE PURPOSES ONLY.

OFF SITE SURFACE WATER DISCHARGES, OR DISCHARGES TO ONSITE WETLANDS OR SURFACE WATERS WITH TURBIDITY IN EXCESS OF 29 NEPHELOMETRIC TURBIDITY UNITS (NTU'S) ABOVE BACKGROUND LEVEL SHALL BE IMMEDIATELY CORRECTED. SUCH INCIDENTS SHALL BE REPORTED

TO WATER RESOURCES WITHIN 24 HOURS OF THE OCCURRENCE. THE REPORT SHALL INCLUDE THE

CORRECTIVE ACTION/

OTHER REMARKS

COMMON OAK ENGINEERING

9 EDGEWATER DRIVE, SUITE

ORLANDO, FL. 32804

(407)951-5915

RTIFICATE OF AUTHORIZATION: 326

**ENGINEER'S NAME & PE#** 

P.E. LICENSE NO. 71636

PROJECT # 221.056 )1/28/2022 SCALE N.T.S.

**EROSION CONTROL** PLAN

WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE, I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE OR IMPRISONMENT FOR KNOWING VIOLATIONS."

PERMITTEE / AGENT

PROTECTION THAT IS ASSOCIATED WITH THIS PROJECT DURING CONSTRUCTION.

OWNER'S/AGENT'S CERTIFICATION: THE OWNER/AGENT IS AWARE OF, AND MUST ASSURE MAINTENANCE OF, THE EROSION

OWNER / AGEN

I CERTIFY UNDER THE PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE

NSPECTOR INFORMATION:

CONTRACTOR'S CERTIFICATION: CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH. THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER. SIGNATURE AND DATE COMPANY/ADDRESS AND RESPONSIBILITY TELEPHONE NUMBER

PROJECT NAME:

LOCATION

EGOOD, M=MARGINAL, NEEDS MAINTENANCE OR REPLACEMENT SOON, P=POOR, NEEDS IMMEDIATE REPLACEMENT, C=NEEDS TO BE CLEANED, O=OTHER CONTROL TYPE CODES A DETENTION BOND

INSPECTIONS MUST OCCUR AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF A STORM EVENT THAT IS 0.50 INCHES OR GREATER.

TYPE OF CONTROL | DATE INSTALLED/ | CURRENT CONDITION

THIS OR A SIMILAR FORM IS REQUIRED.

1. SILT FENCE	13. RETENTION POND	25. HAY BALES
2. EARTH DIKES	4. CONSTRUCTION ENTRANCE STABILIZATION	26. GEOTEXTILE
3.STRUCTURAL DIVERSION	5. PERIMETER DITCH	27. RIP-RAP
4. SWALE	6. CURB AND GUTTER	28. TREE PROTECTION
5. SEDIMENT TRAP	17. PAVED ROAD SURFACE	29. DETENTION POND
6. CHECK DAM	18. ROCK OUTLET PROTECTION	30. RETENTION POND
7. SUBSURFACE DRAIN	9. REINFORCED SOIL RETAINING SYSTEM	31. WASTE DISPOSAL/ HOUSE KEEPING
8. PIPE SLOPE DRAIN	20. GABON	32. DAM
9. LEVEL SPREADERS	21. SEDIMENT BASIN	33. SAND BAG
10. STORM DRAIN INLET PROTECTION	22. TEMPORARY SEED/SOD	34. OTHER
11. VEGETATIVE BUFFER STRIP	23. PERMANENT SEED/SOD	
12 .VEGETATIVE PRESERVATION AREA	24. MULCH	
	<del>'</del>	<u>'</u>

\_QUALIFICATION: I CERTIFY UNDER THE PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED FRSONNEL PROPERTY GATHERED AND EVALUATED THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE. AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE NFORMATION, INCLUDING THE POSSIBILITY OF FINE OR IMPRISONMENT FOR KNOWING VIOLATIONS."

NAME (RESPONSIBLE AUTHORITY) DATE

- CLEARING AND GRUBBING OPERATIONS SHALL BE CONTROLLED SO AS TO MINIMIZE UNPROTECTED ERODIBLE AREAS EXPOSED TO WEATHER. GENERAL EROSION CONTROL BMI SHALL BE EMPLOYED TO MINIMIZE SOIL EROSION AND OFF-SITE SEDIMENTATION, WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC, THEY SHOULD BE EMPLOYED PRIOR TO ANY CONSTRUCTION ACTIVITY SEDIMENT CONTROL CONSISTS OF SILT FENCING. HAY BALES, AND FLOATING TURBIDITY BARRIERS PER CURREN' FDOT SPECIFICATIONS. EROSION CONTROL CONSISTS OF SEEDING AND MULCHING, SODDING, WETTING SURFACES, PLACEMENT OF COARSE AGGREGATE, TEMPORARY PAVING
- CONTRACTOR SHALL RESPOND TO EROSION AND SEDIMENT CONTROL MAINTENANCE REQUIREMENTS OR IMPLEMENT ADDITIONAL MEASURES TO CONTROL EROSIONS ORDEREI BY OWNER OR GOVERNING AUTHORITIES WITHIN 48 HOURS OR SOONER IF REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
- EXCAVATED MATERIAL WILL NOT BE DEPOSITED IN LOCATIONS WHERE IT COULD BE WASHED AWAY BY HIGH WATER OR STORM WATER RUNOFF, STOCKPILED MATERIAL SHALL BE COVERED OR ENCIRCLED WITH SEDIMENT CONTAINMENT DEVICES.
- STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERI CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. CLEARED SITE DEVELOPMENT AREAS WHICH WILL REMAIN AT ROUGH GRADE FOR 14 DAYS OR MORE SHOULD BE STABILIZED IMMEDIATELY BY COVERING WITH ADEQUATE AMOUNT OF HAY, OVER SEEDED AND PERIODICALLY WATERED SUFFICIENT TO STABILIZE THE TEMPORARY GROUNDCOVER, OR BY THE USE OF AN APPROPRIATE ALTERNATIVE BMP
- 5.ALL GRASS SLOPES CONSTRUCTED STEEPER THAN 4H:1V SHALL BE SODDED IMMEDIATELY AFTER FINAL GRADE IS ESTABLISHED.
- 6.WHERE REQUIRED TO PREVENT EROSION FROM SHEET FLOW ACROSS BARE GROUND FROM ENTERING A LAKE OR SWALE, A TEMPORARY SEDIMENT SUMP SHALL BE CONSTRUCTED. THE TEMPORARY SEDIMENT SUMP SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED ON THE GROUND DRAINING TO THE SUMP.
- PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHED OR ANY DISTURBED LAND AREAS SHALL BE COMPLETED IMMEDIATELY AFTER FIN GRADING. WHEN IT IS NOT POSSIBLE TO PERMANENTLY PROTECT A DISTURBED AREA IMMEDIATELY AFTER GRADING OPERATIONS, TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED. ALL TEMPORARY PROTECTION SHALL BE MAINTAINED UNTIL PERMANENT MEASURES ARE IN PLACE AND ESTABLISHED.CONTRACTOR WILL BE REQUIRED. TO INCORPORATE PERMANENT EROSION CONTROL FEATURES INTO PROJECT AT EARLIEST PRACTICAL TIME TO MINIMIZE NEED FOR TEMPORARY CONTROLS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DESIGNATE AN AREA WITHIN THE PROJECT LIMITS FOR CONCRETE TRUCK WASHOUT ACTIVITIES. THIS AREA SHALL PROVIDE EROSION CONTROL DEVICES THAT PREVENT CONTACT BETWEEN CONCRETE WASHOUT MATERIALS AND STORMWATER AND/OR SURFACE WATERS.
- 9.IN ADDITION TO THOSE RESPONSIBILITIES OUTLINED WITHIN THE CONSTRUCTION PLANS AND DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWIN
- A. PROJECT SCHEDULE WITH EROSION AND SEDIMENT CONTROL INSTALLATION AND MAINTENANCE TIED TO THE SPECIFIC DATES OR CONSTRUCTION ACTIVITIES. B. ALTERATIONS TO THE DESIGN EROSION AND SEDIMENT CONTROLS DUE TO DIFFERENCE BETWEEN THE DESIGN PLANS AND ANTICIPATED CONSTRUCTION PHASING AND
- NAME AND PHONE NUMBER OF CONTRACTOR'S REPRESENTATIVE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL INSTALLATION AND MAINTENANCE ON A 24 HOUR
- THE CONTRACTOR WILL FURNISH, INSTALL, MAINTAIN AND SUBSEQUENTLY REMOVE ALL NECESSARY EROSION CONTROL. THE CONTRACTOR WILL FURNISH AND INSTA ALL NECESSARY PERMANENT EROSION CONTROLS.
- THE DEVELOPMENT OF THE APPLICABLE BMP'S TO ENSURE THE CONTROL OF OFF-SITE TRACKING/SPILLAGE, SANITARY, WASTE, FERTILIZERS & PESTICIDES, SOLID WAS DISPOSAL, AND NON-STORMWATER DISCHARGES & HAZARDOUS WASTE. WHEN THE CONTRACTOR ENCOUNTERS A SPILL, CONSTRUCTION WILL STOP AND WORK WIL NOT RESUME UNTIL DIRECTED BY THE PROJECT ENGINEER. DISPOSITION OF HAZARDOUS WASTEWILL BE MADE IN ACCORDANCE WITH ANY REQUIREMENTS A REGULATIONS OF ANY LOCAL, STATE, OR FEDERAL AGENCY HAVING JURISDICTION. THE CONTRACTOR IS ADVISED THAT THE CONTRACT DRAWINGS ONLY INDICATI EROSION, SEDIMENT AND TURBIDITY CONTROLS AT LOCATIONS DETERMINED IN THE DESIGN PROCESS, HOWEVER, THE CONTRACTOR IS REQUIRED TO PROVIDE AN
- ADDITIONAL CONTROLS NECESSARY TO PREVENT THE POSSIBILITY OF SILTING ANY ADJACENT LOWLAND PARCEL OR RECEIVING WATER. INSPECT EROSION AND SEDIMENT CONTROLS WEEKLY OR IMMEDIATELY FOLLOWING A RAIN EVENT OF 1/2 INCH OR GREATER DURING CONSTRUCTION, REMOVE AN SEDIMENT BUILD-UP, REPAIR AND REINSTALL ANY DAMAGED OR MISSING SEDIMENT CONTROL MEASURES. INSTALL ADDITIONAL MEASURES IF INSPECTION REVEALS ADDITIONAL SEDIMENTATION CONTROL IS NECESSARY
- EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALIT
- ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO RECEIVING OUTFALL.
- DE-WATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE WATER MANAGEMENT DISTRICT.
- ALL DE-WATERING, EROSION, AND SEDIMENT CONTROL TO REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION AND REMOVED ONLY WHEN AREAS HAVE BEE
- THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL WATER MANAGEMENT DISTRICT, FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND AN GOVERNING JURISDICTIONS INQUIRES RELATIVE TO COMPLIANCE FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THI
- ALL FILL SLOPES SHALL HAVE SILT FENCE AT THE TOP OF SLOPES.
- ALL SLOPES STEEPER THEN 2:5:1 AND WITH A HEIGHT OF 10' FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFERS SHALL BE STABILIZED WITH APPROPRIATI EROSION CONTROL MATTING OR BLANKETS AND ACCORDING TO FLORIDA E.P.D. REQUIREMENTS.
- FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL A GUIDE TO SOUND LAND AND WATER MANAGEMENT FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (F.D.E.R.) CHAPTER 6

- WHERE APPROPRIATE OR WHEN REQUIRED BY STATE, FEDERAL OR LOCAL AGENCIES, DOWNSTREAM RECEIVING WATERS SHALL BE MONITORED THROUGHOUT CONSTRUCTION FOR TURBIDITY AND PH. A BACKGROUND SAMPLE SHALL BE TAKEN PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- MHERE PRACTICAL, STORMWATER SHALL BE CONVEYED BY SWALES, SWALES SHALL BE CONSTRUCTED AS SHOWN ON PLANS.
- EXCAVATED MATERIAL WILL NOT BE DEPOSITED IN LOCATIONS WHERE IT COULD BE WASHED AWAY BY HIGH WATER OR STORM WATER RUNOFF, STOCKPILED MATERIAL SHALL BI COVERED OR ENCIRCLED WITH SEDIMENT CONTAINMENT DEVICES.
- LEROSION CONTROL MEASURES SHALL BE EMPLOYED TO MINIMIZE TURBIDITY OF SURFACE WATERS LOCATED DOWNSTREAM OF ANY CONSTRUCTION ACTIVITY WHILE THE
- A.) IN GENERAL, EROSION SHALL BE CONTROLLED AT THE FURTHEST PRACTICAL UPSTREAM LOCATION. B.) NEW AND EXISTING STORMWATER INLETS AND OUTFALL STRUCTURES SHALL BE PROTECTED DURING CONSTRUCTION, PROTECTION MEASURES SHALL BE EMPLOYE IMMEDIATELY AS REQUIRED DURING THE VARIOUS STAGES OF CONSTRUCTION.
- PERIMETER EROSION CONTROL DEVICES SHALL BE INSTALL PRIOR TO LAND DISTURBANCE AND SHALL REMAIN IN PLACE UNTIL FINAL SITE STABILIZATION
- .HEAVY CONSTRUCTION EQUIPMENT PARKING AND MAINTENANCE AREAS SHALL BE DESIGNED TO PREVENT OIL. GREASE. AND LUBRICANTS FROM ENTERING SITE DRAINAGE FEATURES INCLUDING STORMWATER COLLECTION AND TREATMENT SYSTEMS, CONTRACTORS SHALL PROVIDE BROAD DIKES OR SILT SCREENS AROUND, AND SEDIMENT SUMPS WITHIN, SUCH AREAS AS REQUIRED TO CONTAIN SPILLS OF OIL, GREASE, LUBRICANTS, OR OTHER CONTAMINANTS, CONTRACTORS SHALL HAVE AVAILABLE, AND SHALL USE, ABSORBENT FILTER PADS TO CLEAN UP SPILLS IMMEDIATELY AFTER ANY OCCURRENCE.

# CONTROL OF FUGITIVE DUST AND WIND EROSION

- THESE NOTES ARE PROVIDED TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, TO REDUCE ON AND OFF SITE DAMAGE AND HEALTH HAZARDS, AND TO IMPROVE TRAFFIC SAFETY ON THE CONSTRUCTION SITE,
- THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON AND OFF SITE DAMAGE IS LIKELY WITHOUT TREATMENT. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL MEASURES AS APPROPRIATE AND AS DIRECTED BY THE ENGINEER

# THE FOLLOWING METHODS SHOULD BE CONSIDERED FOR CONTROLLING DUST:

- A. MULCHES SEE STANDARDS FOR STABILIZATION WITH MULCHES ONLY
- B. VEGETATIVE COVER SEE STANDARDS FOR: TEMPORARY VEGETATIVE COVER, PERMANENT VEGETATIVE COVER, AND PERMANENT STABILIZATION WITH SOD. C. SPRAY ON ADHESIVES (SEE CHART BELOW) - ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS

MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS/ACRE
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1200
LATEX EMULSION	12:5:1	FINE SPRAY	235
RESIN IN WATER	4:1	FINE SPRAY	300
POLYACRYLAMIDE (PAM) - SPRAY ON POLYACRYLAMIDE (PAM) - DRY SPRAY	WATER DILUTION	INSTRUCTIONS. N ADDITIVE TO : FLOCCULATE AND	NG TO MANUFACTURE'S MAY ALSO BE USED AS AN SEDIMENT BASINS TO PRECIPITAVE SUSPENDED DIMENT BASIN STANDARD
ACIDULATED SOY BEAN SOP STICK	NONE	COARSE SPRAY	1200

- D. TILLAGE TO ROUGHEN SURFACE AND BRING CLODS TO SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWIN STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12" APART, AND SPRING TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT
- SPRINKLING SITE IS SPRINKLED UNTIL THE SURFACE IS WET. BARRIERS - SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY, AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURREN
- G. CALCIUM CHLORIDE SHALL BE IN THE FORM OF LOOSE, DRY GRANULES OR FLAKES FINE ENOUGH TO FEED THROUGH COMMONLY USED SPREADERS AT A RATE TH
- WILL KEEP ENOUGH SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. IF USED ON STEEPER SLOPES, THEN USE OTHER PRACTICES TO PREVEN WASHING INTO STREAMS OR ACCUMULATION AROUND PLANTS. H. STONE - COVER SURFACES WITH CRUSHED STONE OR COARSE GRAVEL
- I.PREVENT THE GENERATION OF DUST IN PREFERENCE TO APPLYING DUST SUPPRESSION MEASURES. ENSURE IN THE PROJECT SCHEDULE THAT THE AREA OF CLEARED LAND IS MINIMIZED DURING THE DRIER MONTHS OF THE YEAR, WHEN DUST GENERATION IS AT ITS GREATEST
- THE SOIL SHALL BE MAINTAINED IN A SUFFICIENTLY DAMP CONDITION TO PREVENT LOOSE GRAINS OF SOIL FROM BECOMING DISLODGED. THE SOIL SHALL BE COMPLETEL CRUSTED OVER BY APPLICATION OF WATER OR COMPLETELY COVERED WITH CLEAN GRAVEL OR TREATED WITH AN APPROVED DUST SUPPRESSANT
- PAVE AND WATER HAUL ROADS. THE FREQUENCY OF WATERING WILL BE DETERMINED BY WEATHER CONDITIONS AND THE ERODIBILITY OF THE SOIL. IF ADDITIVES IN THE WATER ARE USED TO INCREASE ITS DUST SUPPRESSION PROPERTIES, THE CHEMICAL SHOULD HAVE NO ADVERSE ENVIRONMENTAL IMPACT ON ADJACENT WATER BODIES. WATER AREAS OTHER THAN HAUL ROADS. IF THEY ARE A SOURCE OF DUST.
- BENSURE THAT SMOOTH SURFACES ARE DEEP RIPPED AND LEFT ROUGH AND CLODDY TO REDUCE THE WIND VELOCITY AT THE SOIL SURFACE.
- CONSTRUCT WIND FENCES IF THIS IS APPROPRIATE FOR THE SITE. AS A CONTINGENCY MEASURE, IN AREAS THAT DO NOT HAVE ACCESS TO A WATER SUPPLY, WATER STOREL ON-SITE SHOULD NEVER BE LESS THAN FIFTY PERCENT OF DISTURBED LAND SURFACE. WHEREVER WATERING IS USED TO SUPPRESS DUST, ENSURE IT DOES NOT CREATE CONTAMINATED RUN-OFF THAT WILL CONTAMINATE SURFACE WATERS.
- USE BARRIERS WHERE REQUIRED TO PREVENT THE MIGRATION OF SAWDUST OR PARTICULATES FROM SANDING OR SURFACE PREPARATION ACTIVITIES DURING
- BARE EARTH AREAS SHALL BE WATERED DURING CONSTRUCTION AS NECESSARY TO MINIMIZE THE TRANSPORT OF FUGITIVE DUST. IT MAY BE NECESSARY TO LIMI CONSTRUCTION VEHICLE SPEED IF BARE EARTH HAS NOT BEEN EFFECTIVELY WATERED. IN NO CASE SHALL FUGITIVE DUST BE ALLOWED TO LEAVE THE SITE UNDER

- AS REQUIRED AFTER COMPLETION OF CONSTRUCTION, BARE EARTH AREAS SHALL BE VEGETATED.
- AT ANY TIME BOTH DURING AND AFTER SITE CONSTRUCTION THAT WATERING AND/OR VEGETATION ARE NOT EFFECTIVE IN CONTROLLING WIND EROSION AND/OR TRANSPOR OF FUGITIVE DUST, OTHER METHODS AS ARE NECESSARY FOR SUCH CONTROL SHALL BE EMPLOYED. THESE METHODS MAY INCLUDE ERECTION OF DUST CONTROL FENCES. IF REQUIRED, DUST CONTROL FENCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAIL FOR A SILT FENCE EXCEPT THE MINIMUM HEIGHT SHALL BE 4 FEET.
- 1.OFF SITE SURFACE WATER DISCHARGES. OR DISCHARGES TO ONSITE WETLANDS OR SURFACE WATERS WITH TURBIDITY IN EXCESS OF 29 NEPHELOMETRIC TURBIDITY UNITS (NTU'S) ABOVE GROUND LEVEL SHALL BE IMMEDIATELY CORRECTED. SUCH INCIDENTS SHALL BE REPORTED TO WATER RESOURCES WITHIN 24 HOURS OF THE OCCURRENCE. THE REPORT SHALL INCLUDE THE CAUSE OF DISCHARGE AND CORRECTIVE ACTIONS TAKEN.
- FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ENTER STORMWATER DRAINS OR WATERBODIES, OR FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ARE IN EXCESS. OF 25 GALLONS SHALL BE CONTAINED, CLEANED UP, AND IMMEDIATELY REPORTED TO WATER RESOURCES, SMALLER GROUND SURFACE SPILLS SHALL BE CLEANED UP AS
- IF CONTAMINATED SOIL/OR GROUNDWATER IS DISCOVERED DURING DEVELOPMENT OF THE SITE, ALL ACTIVITY IN THE VICINITY OF THE CONTAMINATION SHALL IMMEDIATEL CEASE, AND WATER RESOURCES SHALL BE CONTACTED.
- PRIOR TO DEMOLITION OF EXISTING ON SITE STRUCTURES AN ASBESTOS SURVEY AND/OR ASBESTOS NOTIFICATION MAY BE REQUIRED.
- 5.THE DISCHARGE OF GROUNDWATER PRODUCED THROUGH DEWATERING. TO SURFACE WATERS. OR ANY PORTION OF THE MS4 WILL REQUIRE SEPARATE PERMITTING FROM TH FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP). PERMITS SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF DEWATERING.
- FIS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IT IS ALSO THE ONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED. MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER ROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN AND ADD DDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. TH DLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE EROSION AND TURBIDITY CONTROL PLAN AND AS REQUIRED TO

HAY BALE BARRIER: HAY BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:

### EROSION AND SEDIMENT CONTROLS STABILIZATION PRACTICES:

MEET THE EROSION AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

ROSION AND SEDIMENT CONTROLS BMP'S:

- WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS. D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF STRAW BALE BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES
- WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST WASHOUT ILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS: WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
- IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS.
- LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL LIP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE.
- STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.
- EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN. RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATION. SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING O ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.
- 7.INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET
- EMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSI TREATMENT WITHIN 30 DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED
- AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING 'EMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIV MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND
- TEMPORARY GRASSING: THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER, TEMPORARY GRASSING SHALL BE THE SAME MIX & AMOUNT REQUIRED FOR
- PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS. TEMPORARY REGRESSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 85 PERCENT UNIFORM GOOD GRAS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.
- MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF TH CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.
- PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.
- PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDED. THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDED AND MULCHED OR SODDED.

# I. TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY

- EMPORARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL BE INSTALLED IN AN DRAINAGEWAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FORM A DISTUR AREA. THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE:
- BLOCK & GRAVEL SEDIMENT FILTER THIS PROTECTION IS APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE GRAVEL SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE
- MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES & UNPROTECTED AREAS. DROP INLET SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (S < 5%) AND WHERE SHEET OR OVERLAND FLOWS (I < 0.5 CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS
- UTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION & SEDIMENT PROBLEM TO TH RECEIVING WATER BODY, SILT FENCES & HAY BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET.
- SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES AT ONE TIME. THE PROPOSEL STORM WATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE.
- HE 1.77 ACRES DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINA ITABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. ANY TEMPORARY SEDIMENT BASINS CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAP

STRUCTURAL PRACTICES

- I.NO CONSTRUCTION MATERIAL SHALL BE DISCHARGED TO WATERS OF THE STATE UNLESS AUTHORIZED BY A SECTION 404 PERMIT AND/OR THE STATE OF FLORIDA ENVIRONMENTAL RESOURCE PERMIT. ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF IN AN APPROVED UPLAND LOCATION. BUILDING MATERIAL SHALL NOT BE DISPOSED OF IN WETLANDS OR BURIED ON-SITE.
- IT IS THE RESPONSIBLY OF THE CONTRACTOR TO DEVELOP AN EROSION CONTROL PLAN THAT PROVIDES A DETAILED DESCRIPTION OF ALL EROSION AND SEDIMENT CONTROLS. BEST MANAGEMENT PRACTICES AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE FOR EACH ACTIVITY IDENTIFIED IN SECTION 1.B. SEQUENCE OF SOIL DISTURBING ACTIVITIES. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TIME FRAMES IN WHICH THE CONTROLS WILL BE IMPLEMENTED, MAINTAINED AND REMOVED. THIS INFORMATION SHALL BE KEPT AT THE PROJECT FIELD OFFICE IN ORDER FOR THE PROJECT TO BE CONSIDERED IN COMPLIANCE WITH FDEP GENERIC PERMIT FOF STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION SITES.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE FOLLOWING ITEMS ARE ON SITE: COPY OF THE STORMWATER POLLUTION PREVENTION PLAN WITH THE ORIGINAL CERTIFICATION SIGNATURES. COPY OF CONTRACTOR'S EROSION CONTROL PLAN.
- HAZARDOUS SPILL CONTROL PLAN WITH GUIDELINES ON CONTACTING THE 24 HOUR EMERGENCY RESPONSE PROGRAM FOR HAZARDOUS MATERIAL SPILLS. THIS SHALL INCLUDE COPIES OF DISCHARGE NOTIFICATIONS THAT HAVE OCCURRED WITHIN THE PROJECT LIMITS
- THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE FOLLOWING ITEMS TO FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION IN ORDER FOR THE NPDES PERMIT I BE PROCESSED FDEP FORM 62-621.300(4)(b) - NOTICE OF INTENT TO USE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES, TH NOTICE OF INTENT SHALL BE SIGNED BY THE CONTRACTOR.
- THE CONTRACTOR IS REQUIRED TO SUBMIT A COPY OF THIS LOG ALONG WITH A NOTICE OF TERMINATION TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION UPON THE COMPLETION OF CONSTRUCTION. CONTRACTOR IS REQUIRED TO RETAIN ALL RECORDS FOR A PERIOD OF NO LESS THAN 3 YEARS FOLLOWING THE NOTICE OF TERMINATION
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT THE NOI TO FDEP NO LESS THAN 48 HOURS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROOF OF MAIL TO THE PROJECT ADMINISTRATOR.
- STABILIZED CONSTRUCTION ENTRANCES AND CONSTRUCTION ROADS, IF APPROPRIATE, SHALL BE IMPLEMENTED IN ORDER TO REDUCE OFFSITE TRACKING.
- 7.LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPAULIN. EXCESS DIRT ON THE ROAD SHALL BE REMOVED DAILY. B.IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR IS TO CEASE OPERATIONS IN THAT AREA. THE CONTRACTOR SHALL

CONTACT THE ENGINEER OF RECORD IMMEDIATELY WHO WILL NOTIFY THE DISTRICT CONTAMINATION IMPACT COORDINATOR.

# NOTICE TO GENERAL CONTRACTORS:

BMP'S (INCLUDING SILT FENCE INSTALLED IN PHASE 1) SHALL NOT BE REMOVED UNTIL FINAL STABILIZATION HAVE BEEN ACHIEVED. CONTRACTOR SHALL REFERENCE THE SEQUENCE OF CONSTRUCTION. PRIOR TO CONSTRUCTION, GC MUST CLEARLY DELINEATE AN

MARK OFF AREAS IDENTIFIED IN THE S.W.P.P.P. OR IN THE

BUFFERS, TREES, HABITATS OF ENDANGERED/THREATENED

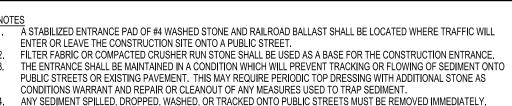
FIELD TO CLEARLY BE PROTECTED (SUCH AS NATURAL

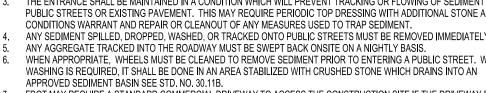
SPECIES, HISTORIC PROPERTIES ETC.)

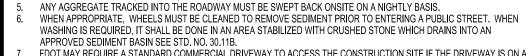
- IN AN EFFORT TO ENSURE COMPLIANCE WITH FEDERAL, STATE, AND FOLLOWING PERMITS HAVE BEEN OBTAINED. D.E.P. DREDGE/FILL PERMIT C.O.E. DREDGE/FILL PERMIT \_\_\_\_\_ N/A WATER MANAGMENT PERMIT \_\_\_
- CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

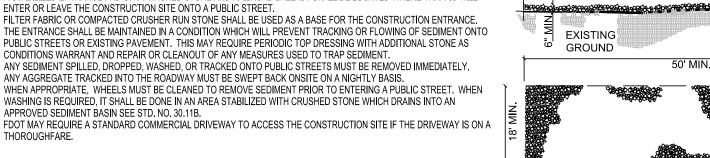
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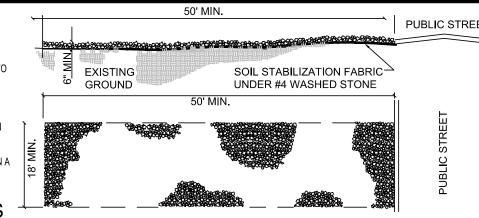
LOCAL LAWS REGARDING EROSION AND TURBIDITY CONTROLS, THE

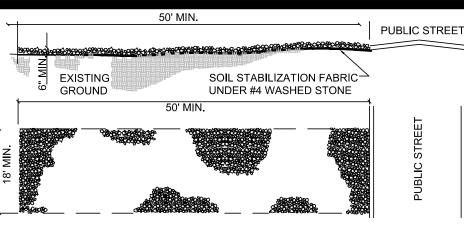


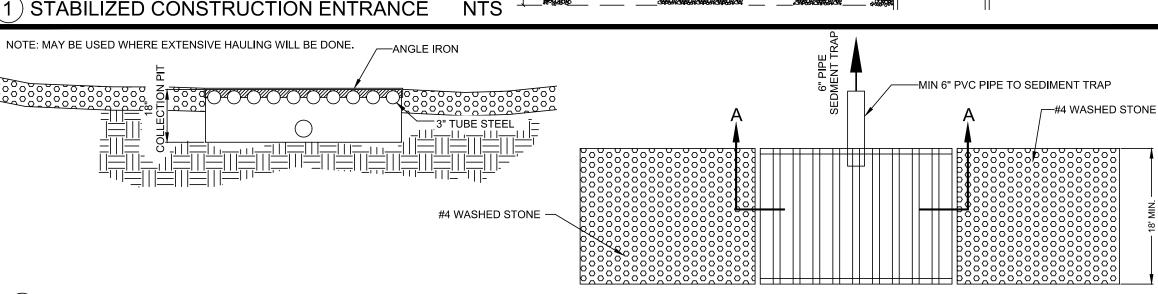




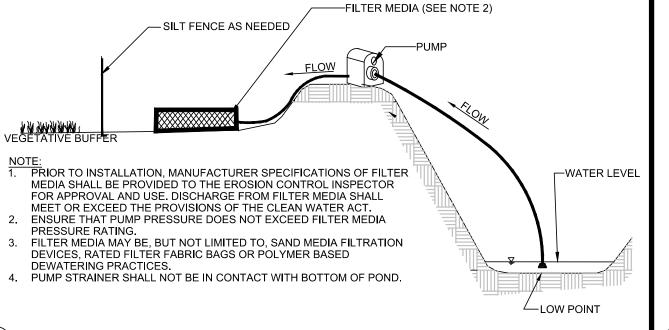






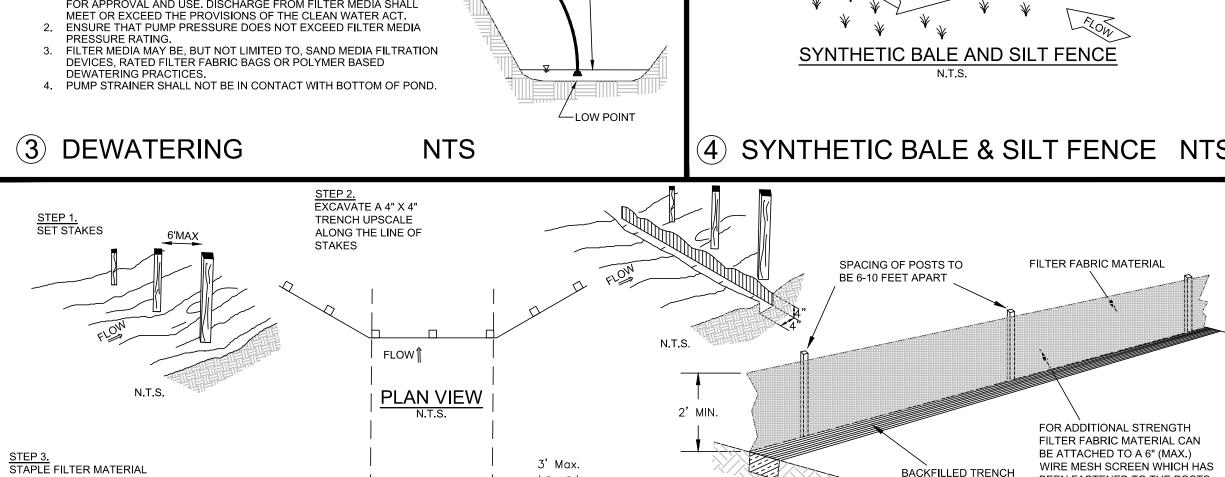


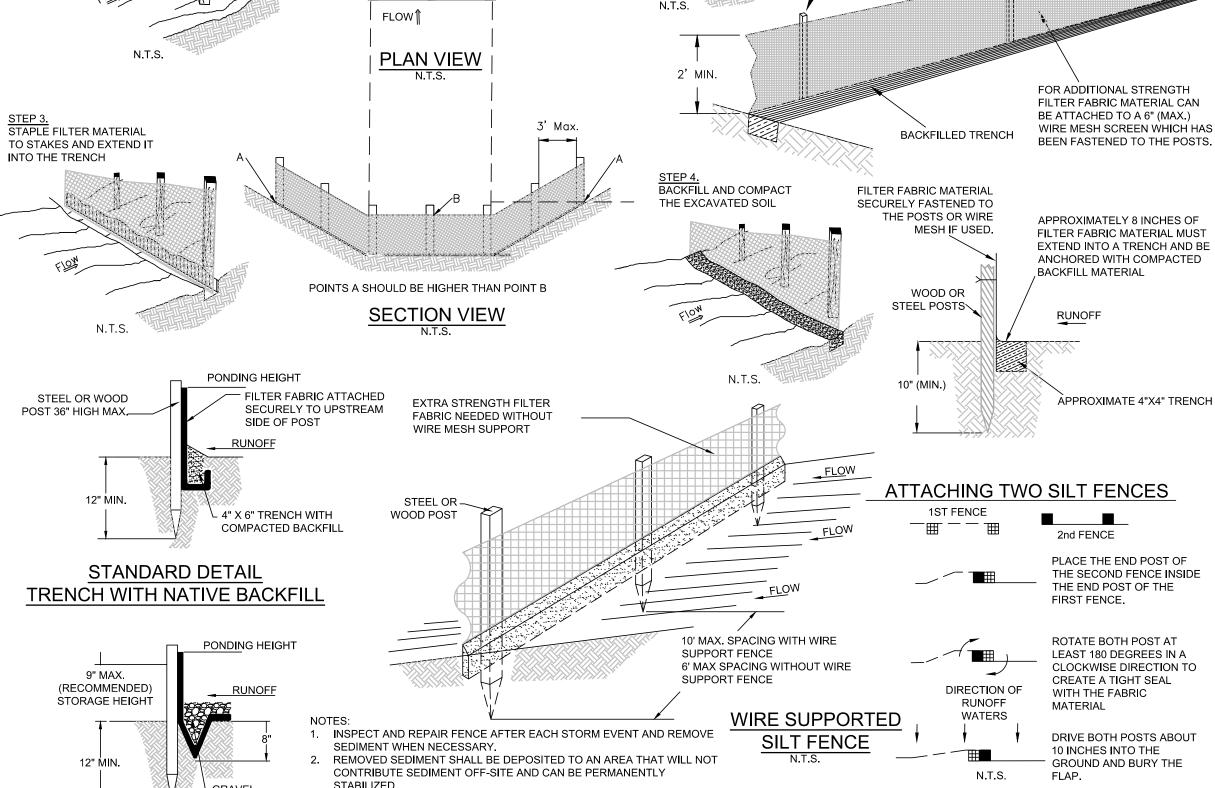
# (2) CONSTRUCTION ENTRANCE TIRE WASHOUT



2"X2" STAKES 2' IN THE GROUND BALES BUTTED TIGHTLY TOGETHER PREASEMBLED SILT FENCE SYNTHETIC BALE AND SILT FENCE

-WATER SUPPLY





3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE

EROSION AND SEDIMENTATION CONTROLS ARE PERFORMANCE BASED

CONSTRUCTION SITE, THEN THE CONTRACTOR IS REQUIRED TO EMPLOY

ADDITIONAL PROCEDURES TO PROVIDE CLEAN RUNOFF FROM A SITE.

CRITERIA. IF THE BMPS PROVIDED DO NOT PREVENT SOILS FROM LEAVING A

PONDING EFFICIENCY.

ONTRACTOR'S RESPONSIBILITY

ALTERNATE DETAIL

(5) SILT FENCE

RENCH WITH GRAVEL



Д > ш



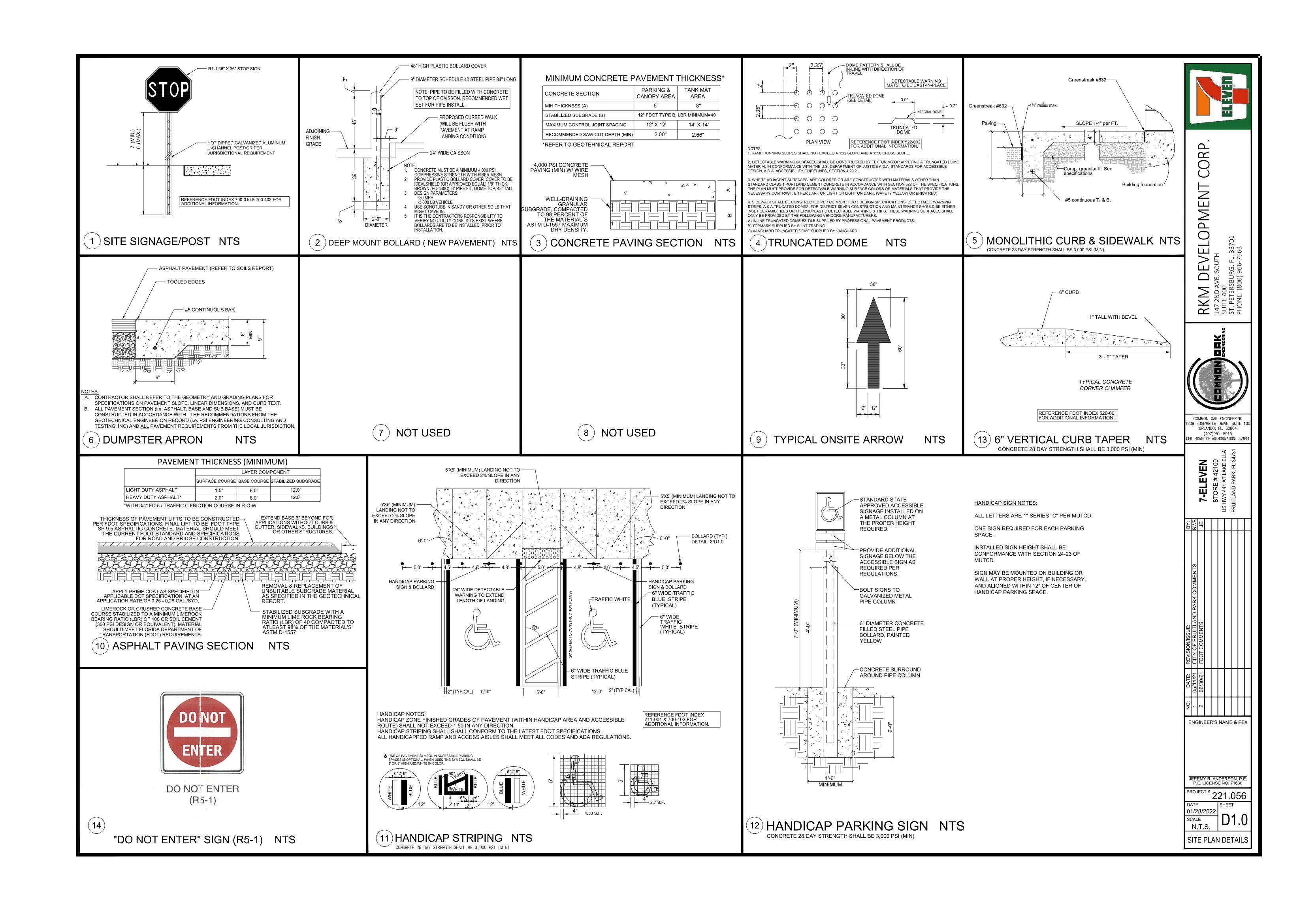
9 EDGEWATER DRIVE, SUITE ORLANDO, FL. 32804 (407)951-5915 RTIFICATE OF AUTHORIZATION: 326

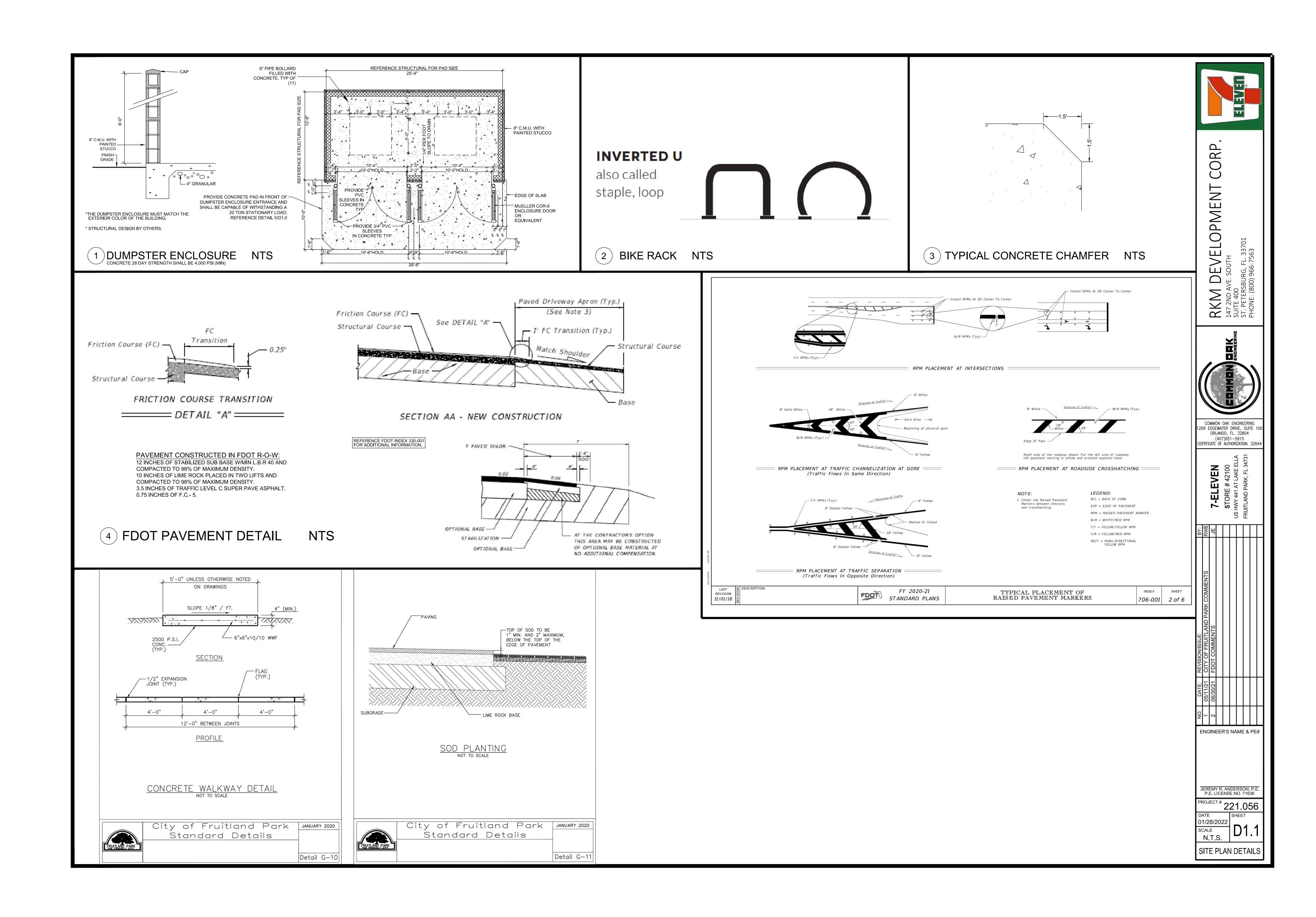
EREMY R. ANDERSON, P. P.E. LICENSE NO. 71636

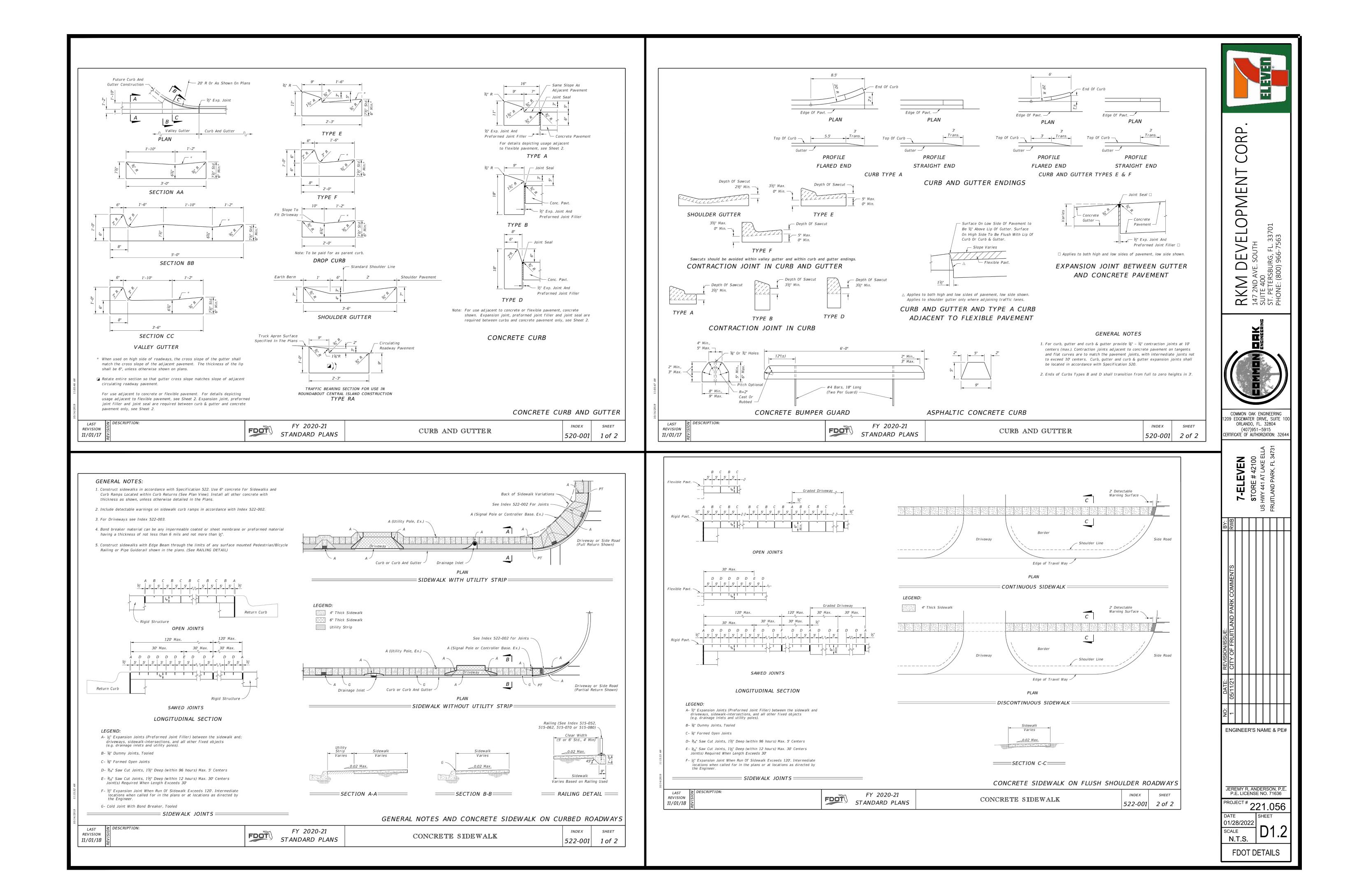
ENGINEER'S NAME & PE#

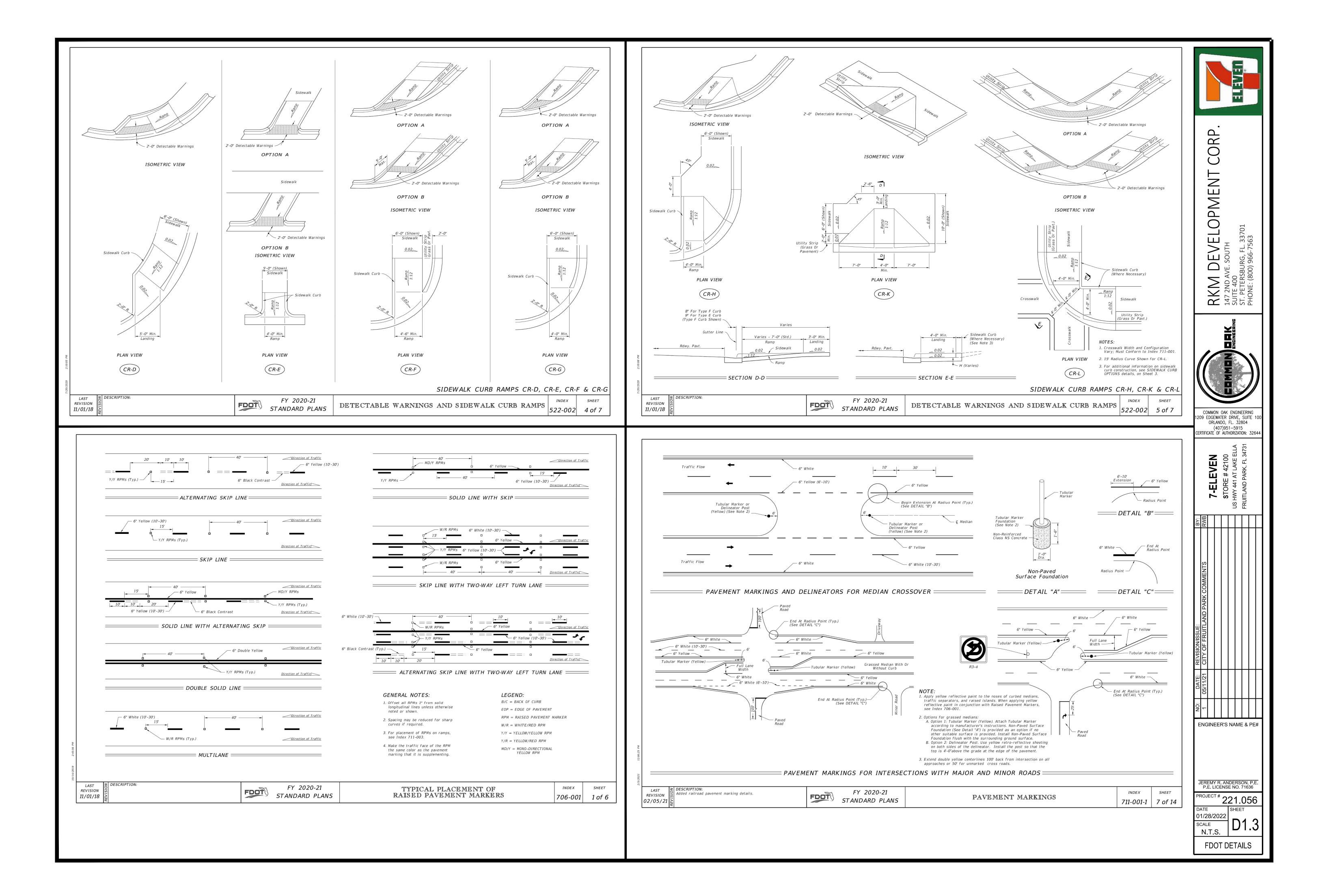
PROJECT # 221.056 N.T.S.

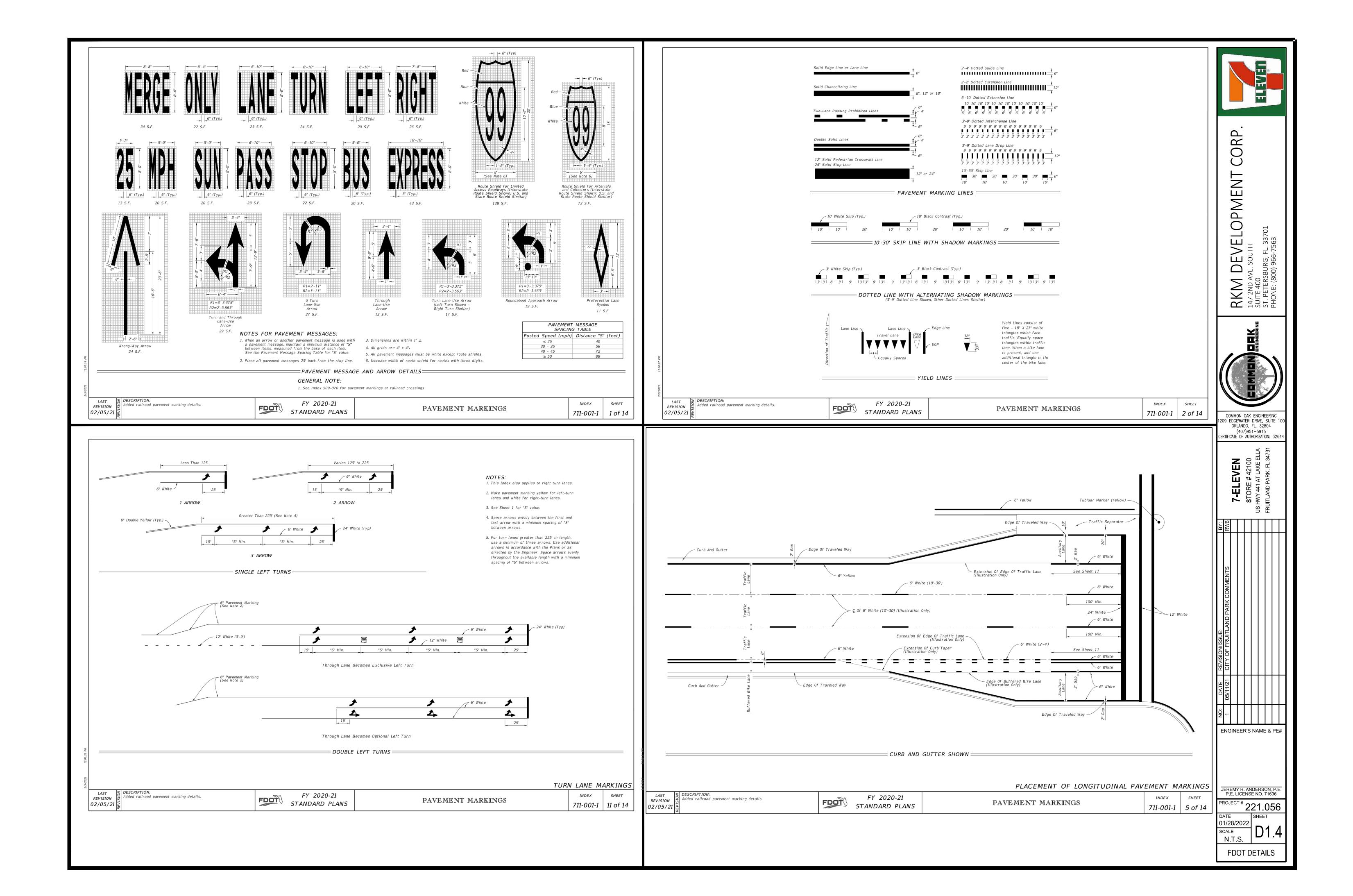
EROSION CONTROL DETAILS

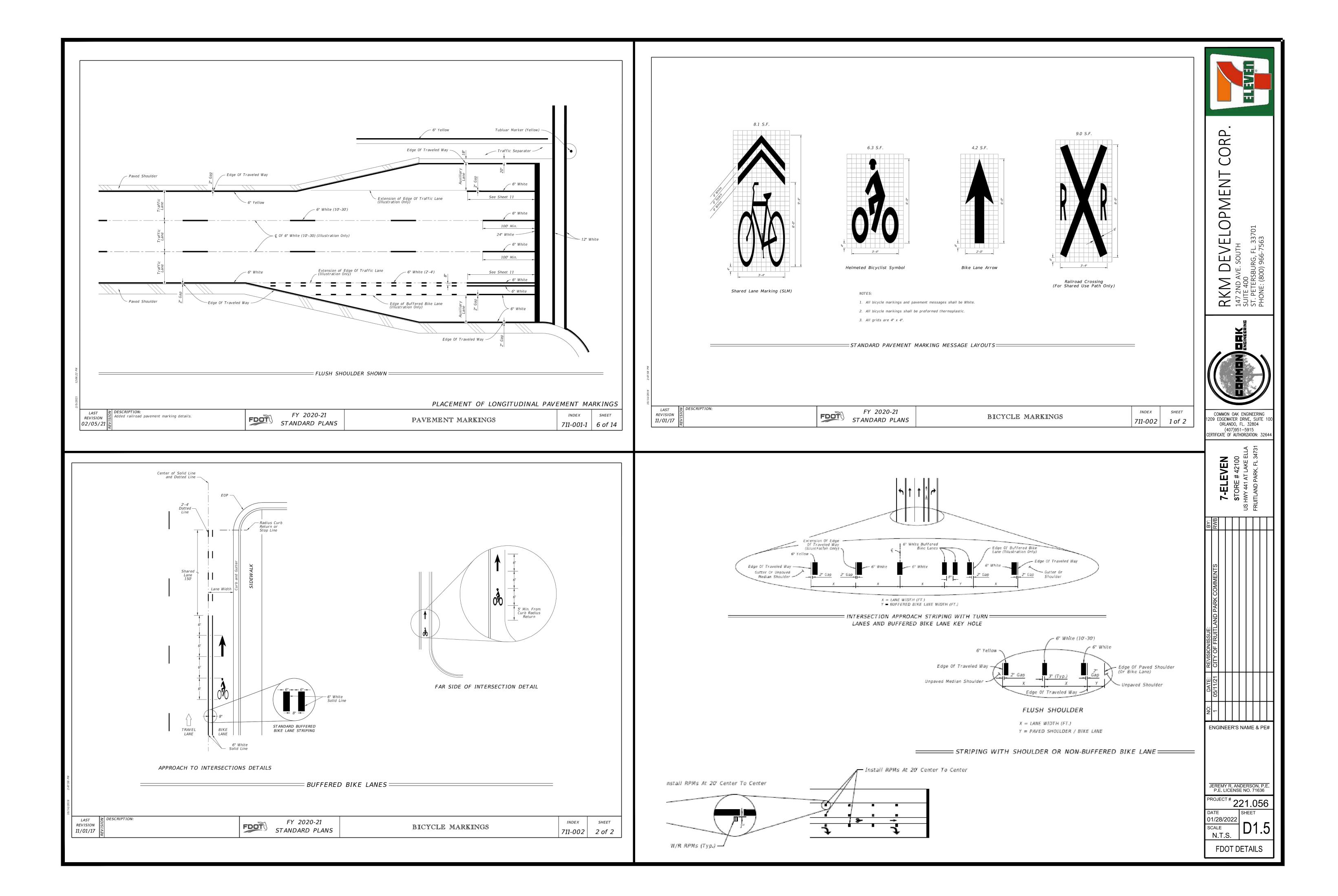


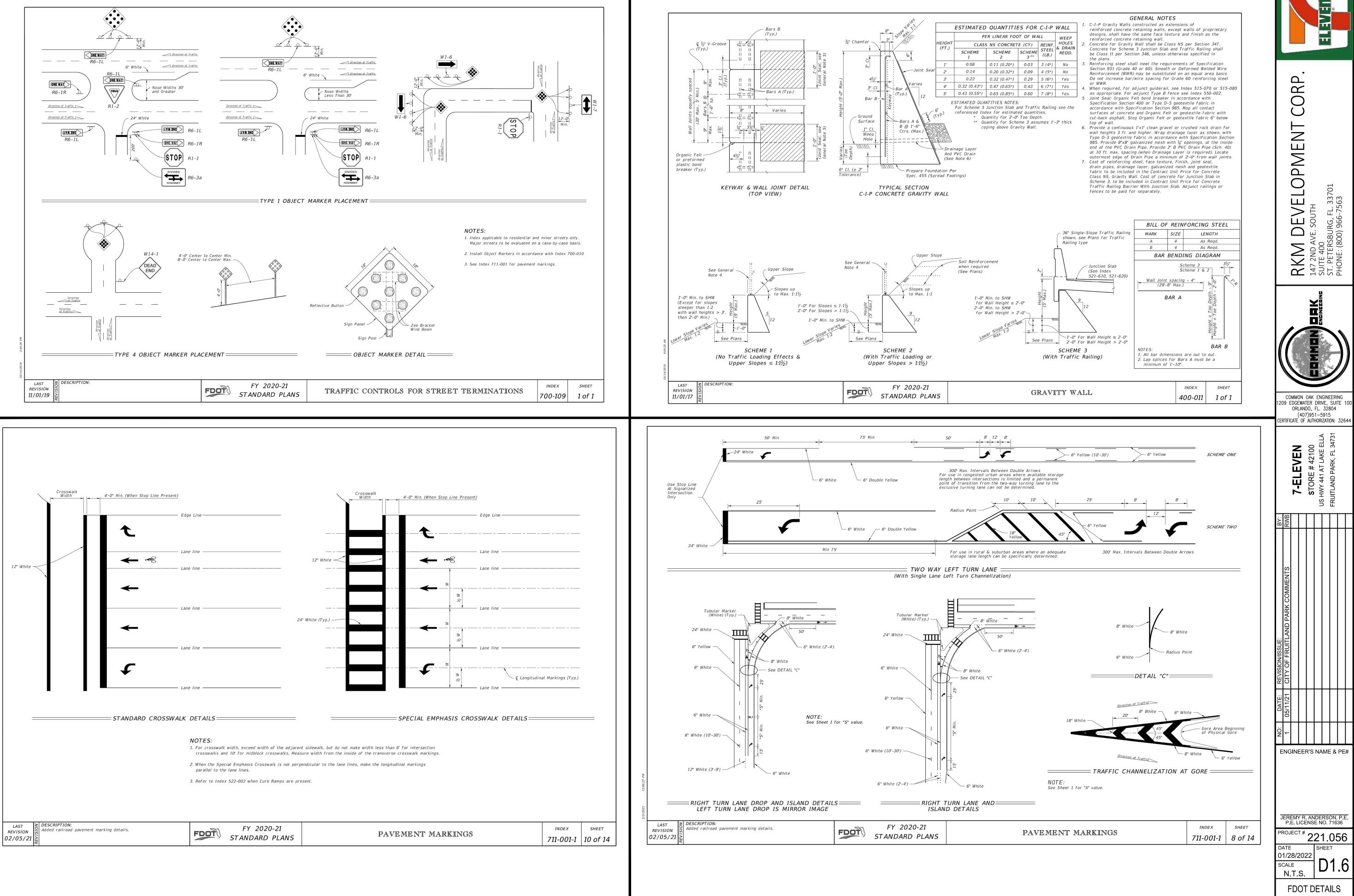


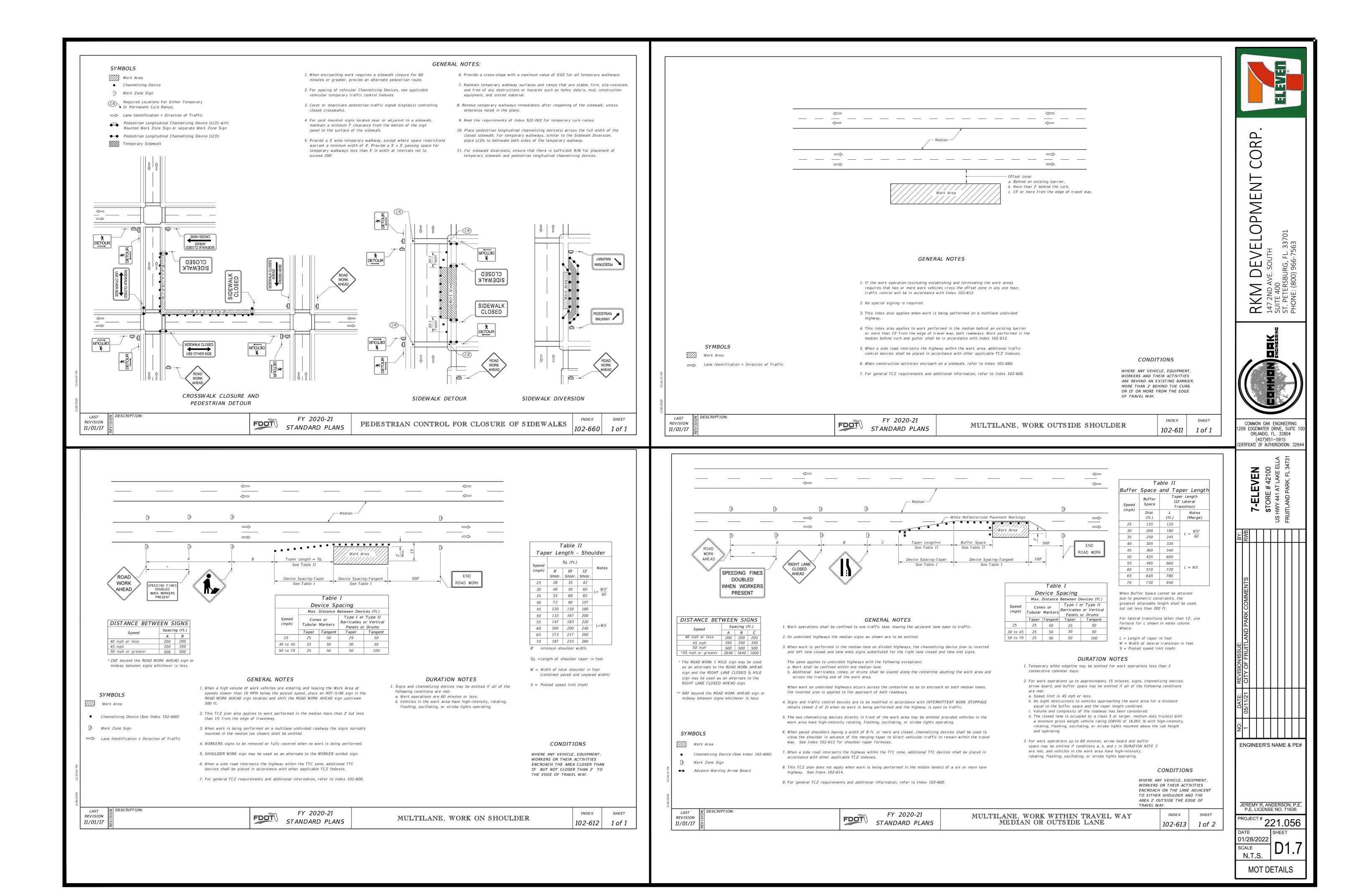


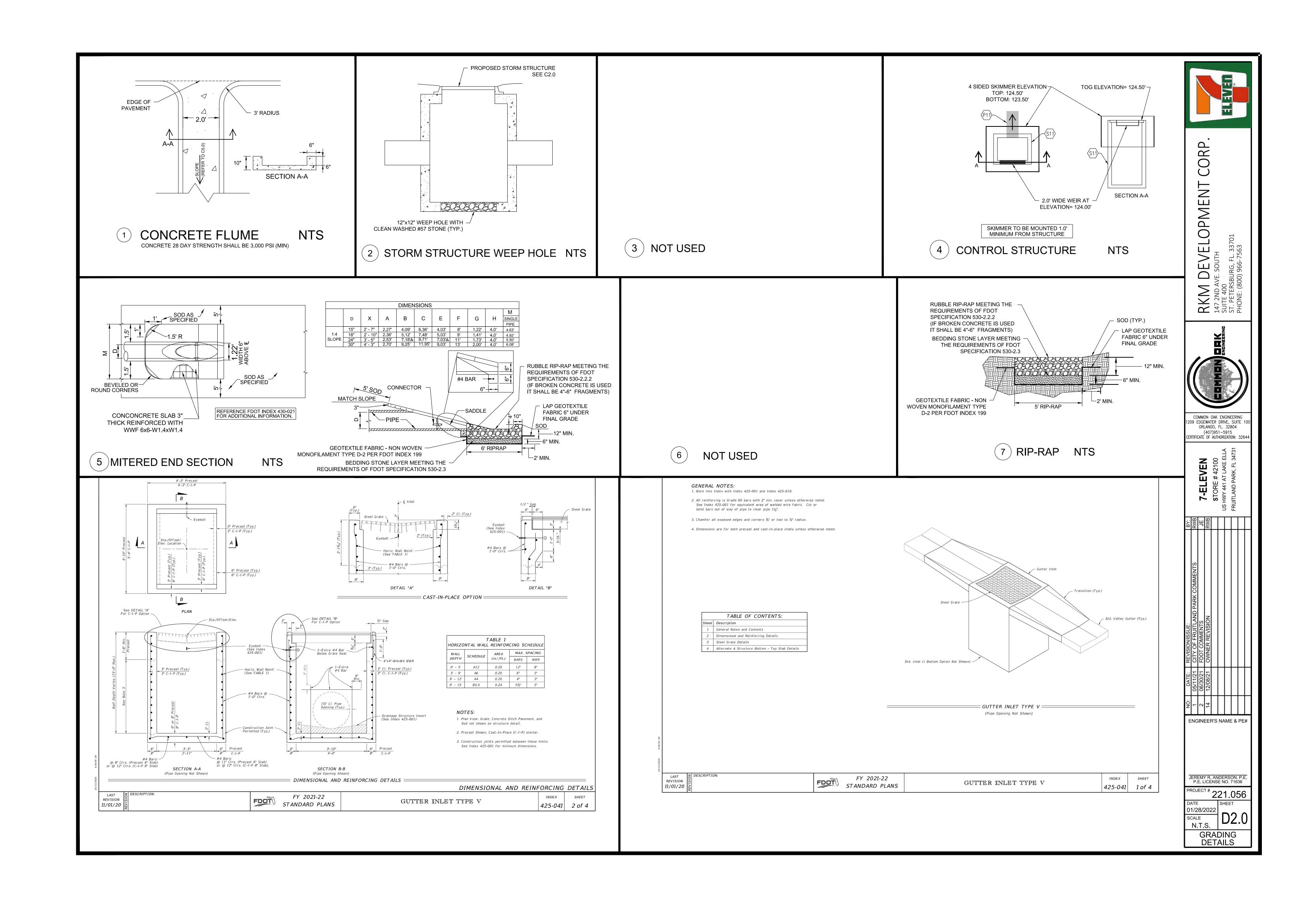


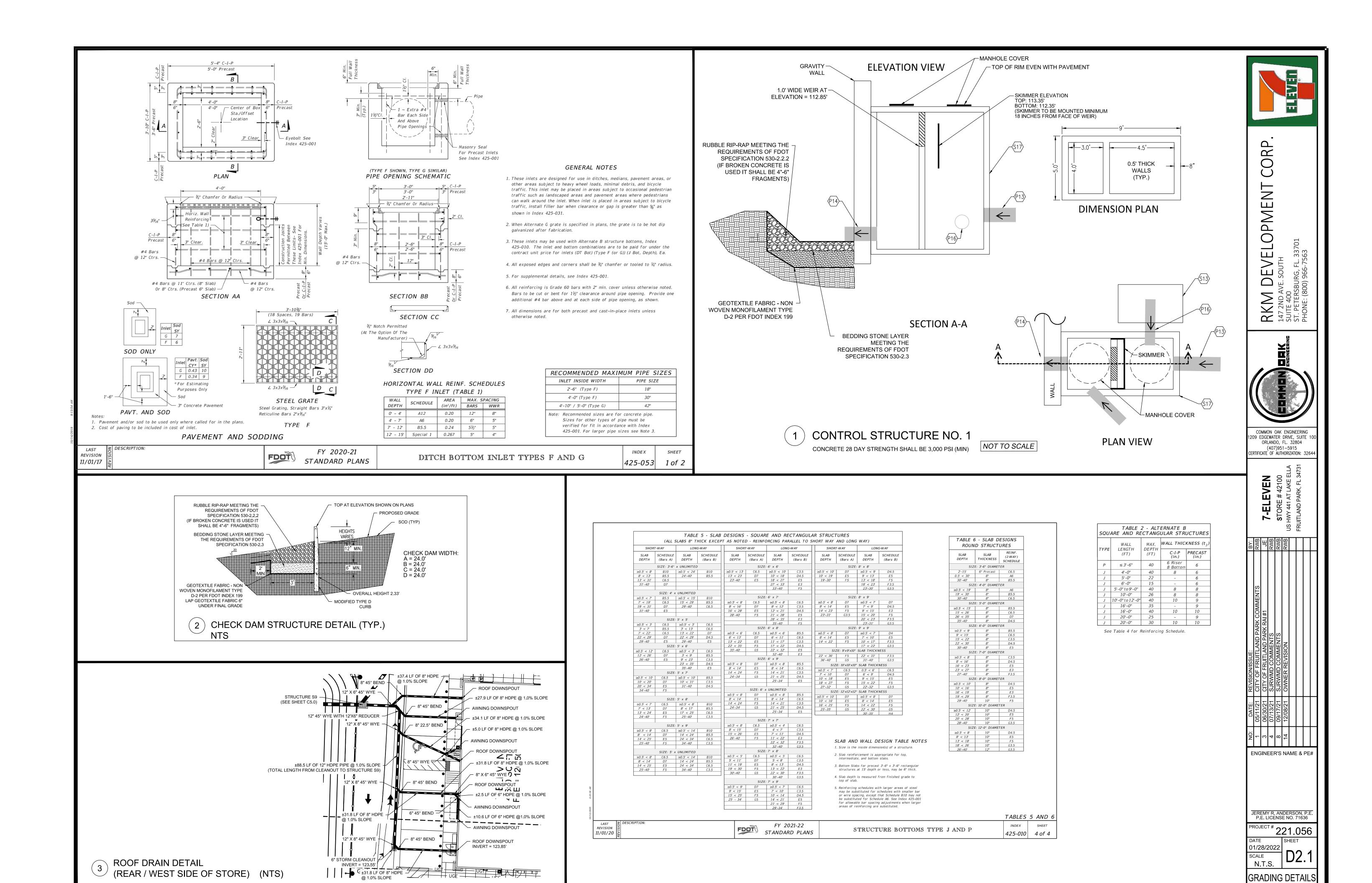


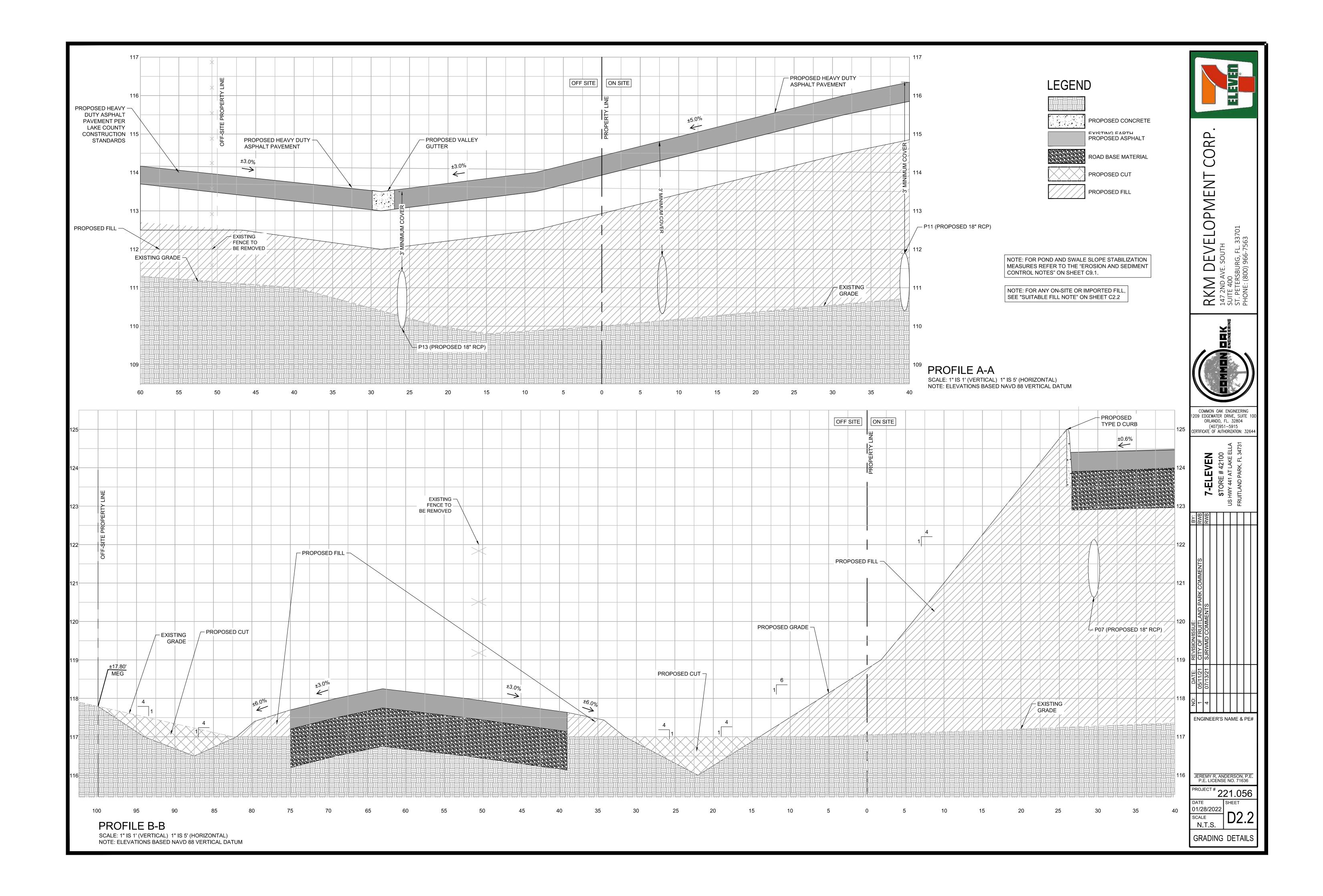


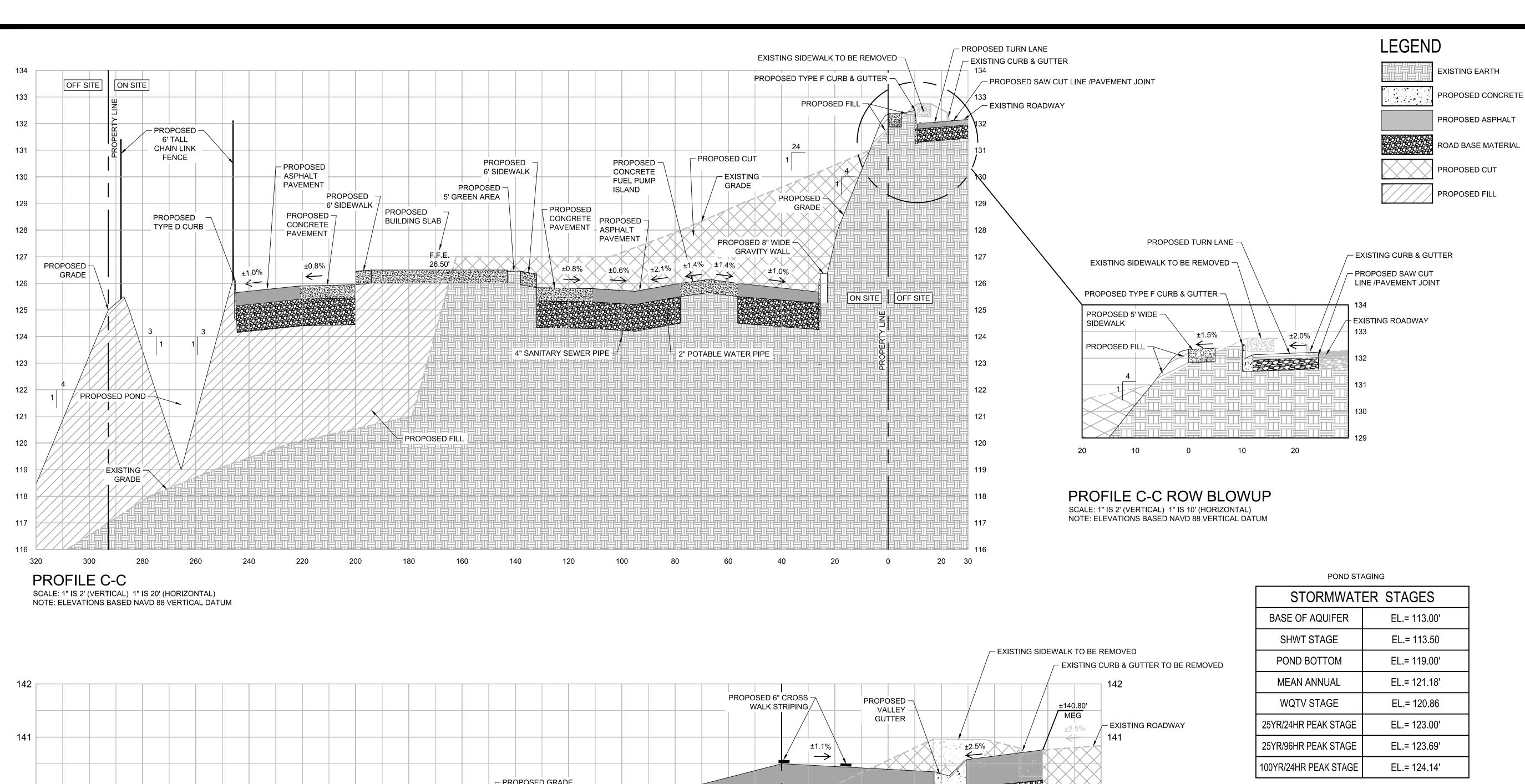












		EXISTING SIDEWALK TO BE REMOVED
		EXISTING CURB & GUTTER TO BE REMOVE
142		142
	PROPOSED 6" CROSS—WALK STRIPING	PROPOSED —
41		±2.5% — EXISTING ROADWAY
	±1.1%	±2.5%
40	PROPOSED GRADE	140
40 PROPOSED TYPE D CURB	±5.0%	140
RADE	±2.0%	
39 5		
38	ON SITE OFF SITE	
137	EXISTING	137
	GRADE	
EXISTING		
		136
	╙╦╨╦╨╦╨╦╨╦╨╦╨╦╨╦╨╦╨╦╨╦╙╦╙╦╙╦╙╦╙╦╙╦╙╦╙╦╙	
	╙╦	

PROFILE D-D

SCALE: 1" IS 1' (VERTICAL) 1" IS 5' (HORIZONTAL)

NOTE: ELEVATIONS BASED NAVD 88 VERTICAL DATUM

SEE "SUITABLE FILL NOTE" ON SHEET C2.2

NOTE: FOR ANY ON-SITE OR IMPORTED FILL,

CONTROL NOTES" ON SHEET C9.1.

NOTE: FOR POND AND SWALE SLOPE STABILIZATION MEASURES REFER TO THE "EROSION AND SEDIMENT

PMENT CORP.

RKM DEVELOI
147 2ND AVE. SOUTH
SUITE 400
ST. PETERSBURG, FL. 33701
PHONE: (800) 966-7563



COMMON OAK ENGINEERING 209 EDGEWATER DRIVE, SUITE 100 ORLANDO, FL. 32804 (407)951-5915 CERTIFICATE OF AUTHORIZATION: 32644

7-ELEVEN
STORE # 42100
S HWY 441 AT LAKE ELLA
SUITLAND PARK, FL 34731

RWB	OWNER REVISION	12/08/21	14
AJB	FDOT COMMENTS	11/09/21	13
RWB	SJRWMD COMMENTS	10/29/21	11
RWB	SJRWMD COMMENTS	09/17/21	8
RWB	SJRWMD COMMENTS	07/13/21	4
JE	CITY OF FRUITLAND PARK RAI #1	06/30/21	3
JE	FDOT COMMENTS	06/30/21	2
RWB	CITY OF FRUITLAND PARK COMMENTS	05/11/21	1
BY:	REVISION/ISSUE:	DATE:	:ON

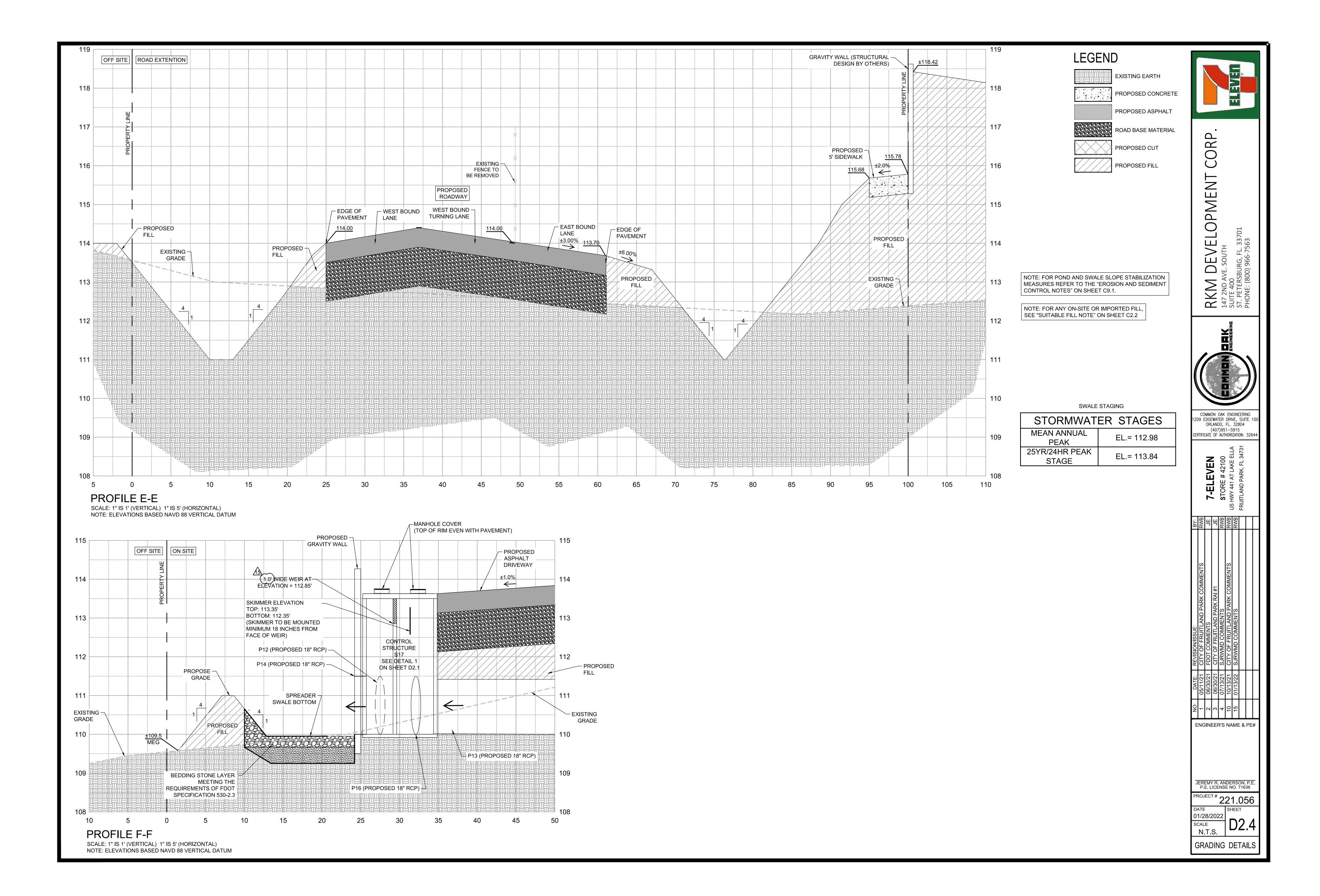
ENGINEER'S NAME & PE#

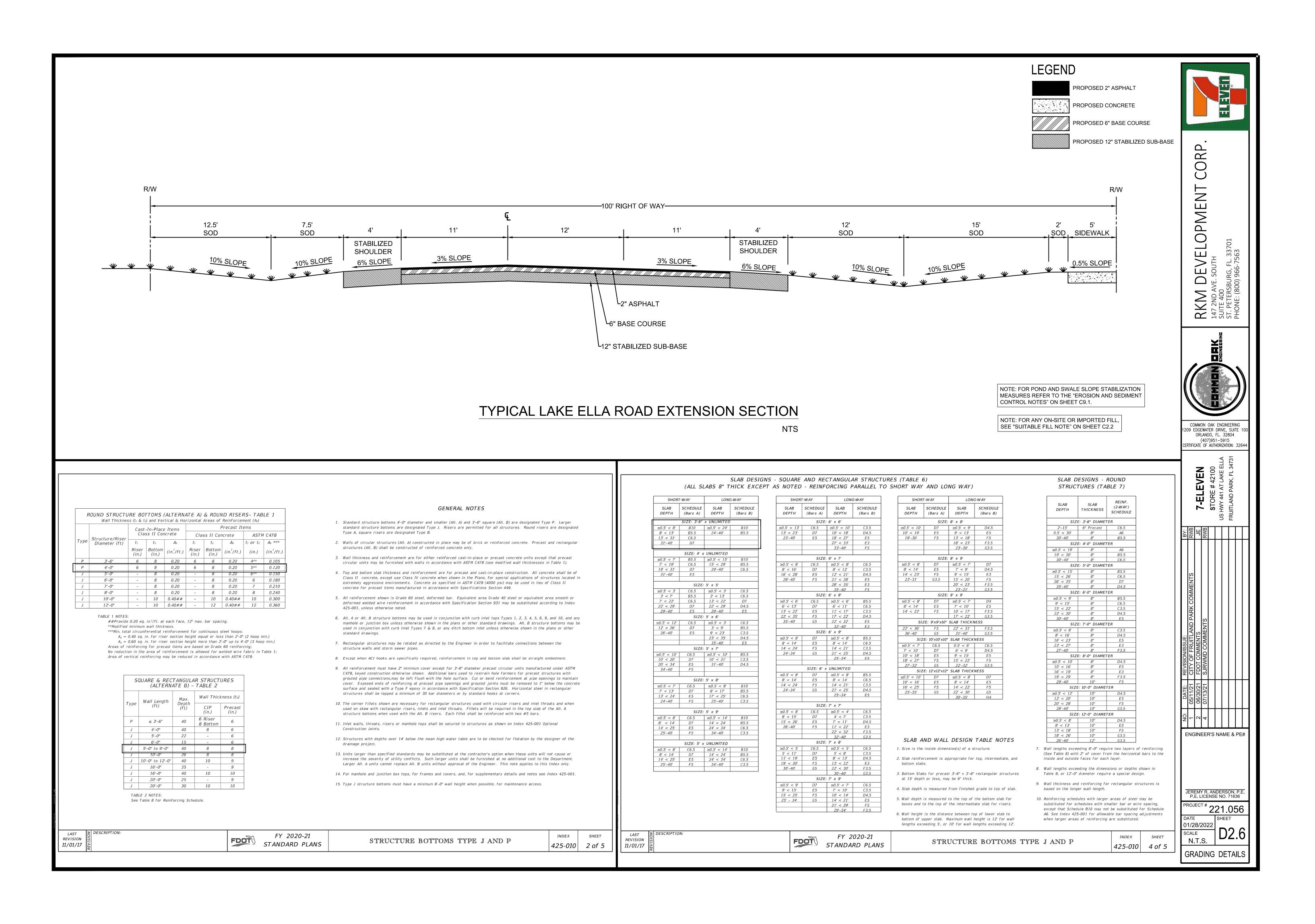
JEREMY R. ANDERSON, P.E. P.E. LICENSE NO. 71636

PROJECT # 221.056

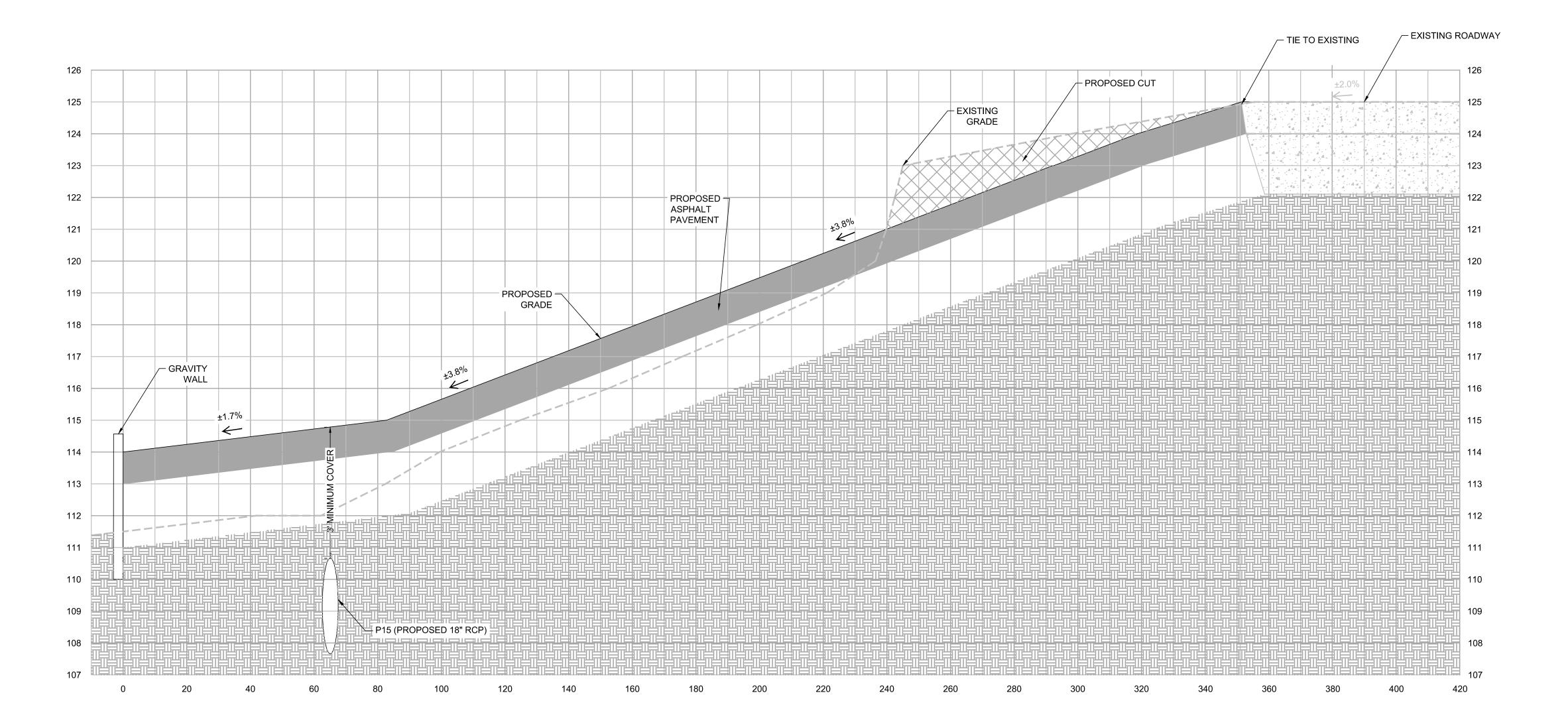
DATE SHEET 01/28/2022

N.T.S. DZ.O





PROPOSED FILL



PROFILE I-I SCALE: 1" IS 2' (VERTICAL) 1" IS 20' (HORIZONTAL) NOTE: ELEVATIONS BASED NAVD 88 VERTICAL DATUM

NOTE: FOR POND AND SWALE SLOPE STABILIZATION MEASURES REFER TO THE "EROSION AND SEDIMENT CONTROL NOTES" ON SHEET C9.1.

NOTE: FOR ANY ON-SITE OR IMPORTED FILL, SEE "SUITABLE FILL NOTE" ON SHEET C2.2

CORP

RKM DEVELOPMENT (
147 2ND AVE. SOUTH
SUITE 400
ST. PETERSBURG, FL. 33701

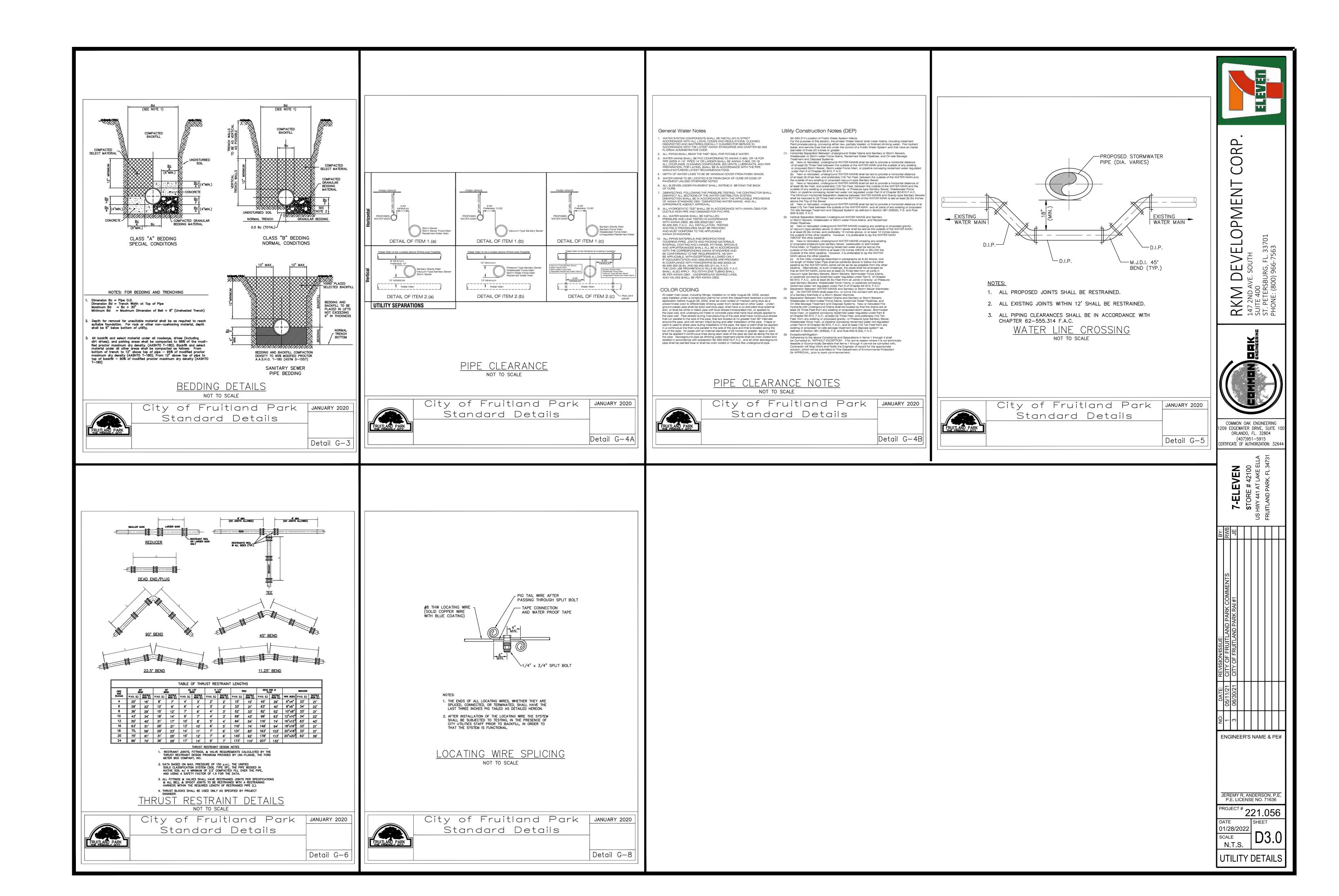


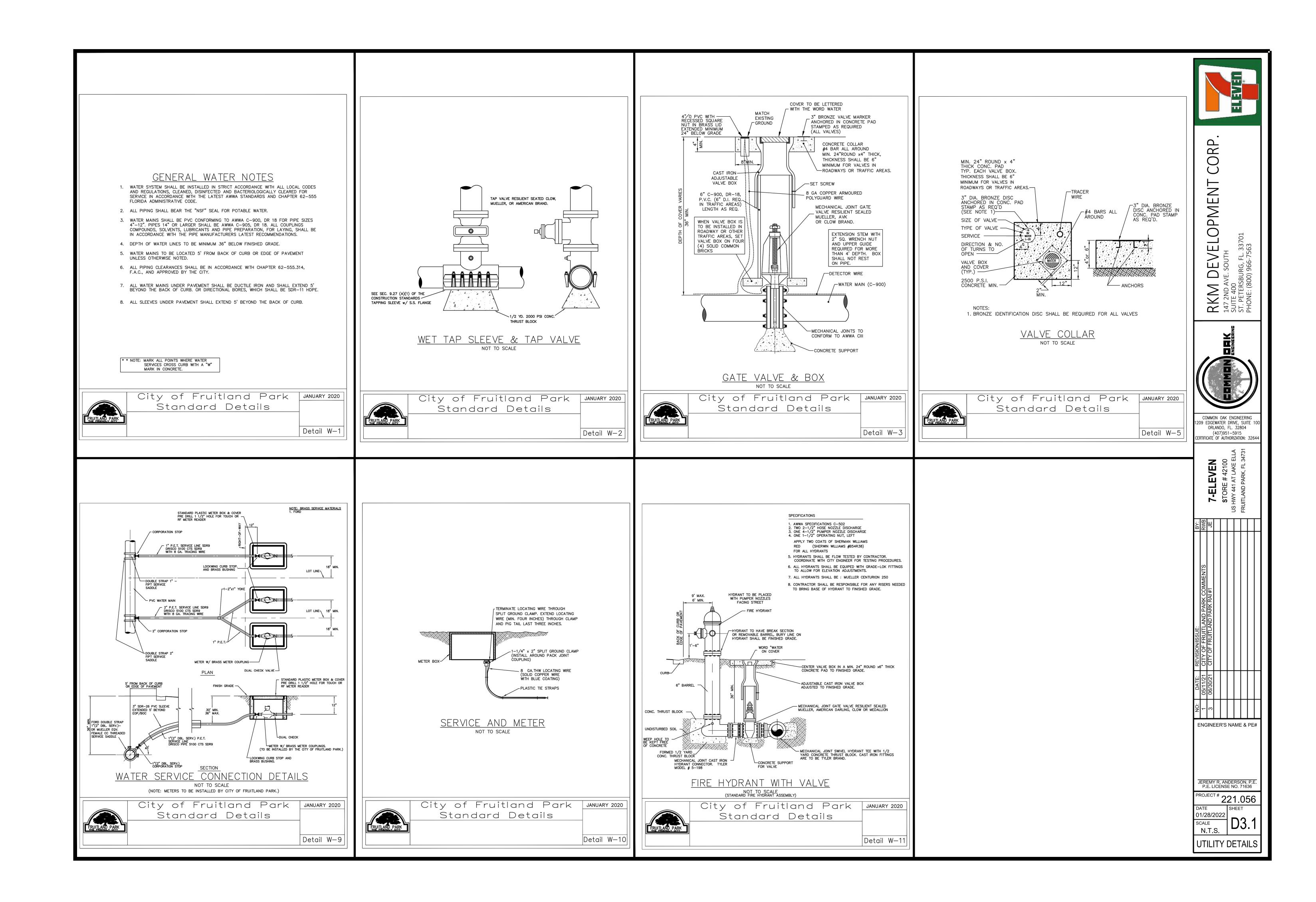
COMMON OAK ENGINEERING 209 EDGEWATER DRIVE, SUITE 1 ORLANDO, FL. 32804 (407)951-5915 RTIFICATE OF AUTHORIZATION: 326

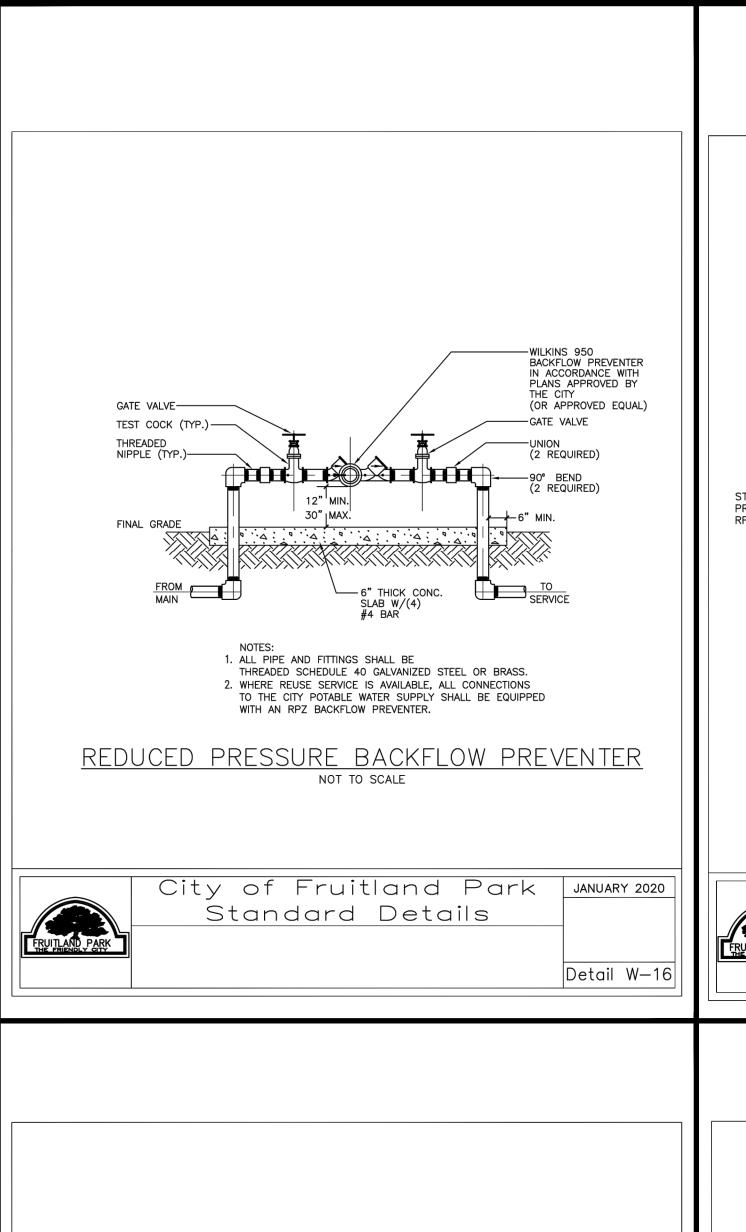
**VEN** 42100 LAKE EL IK, FL 34'

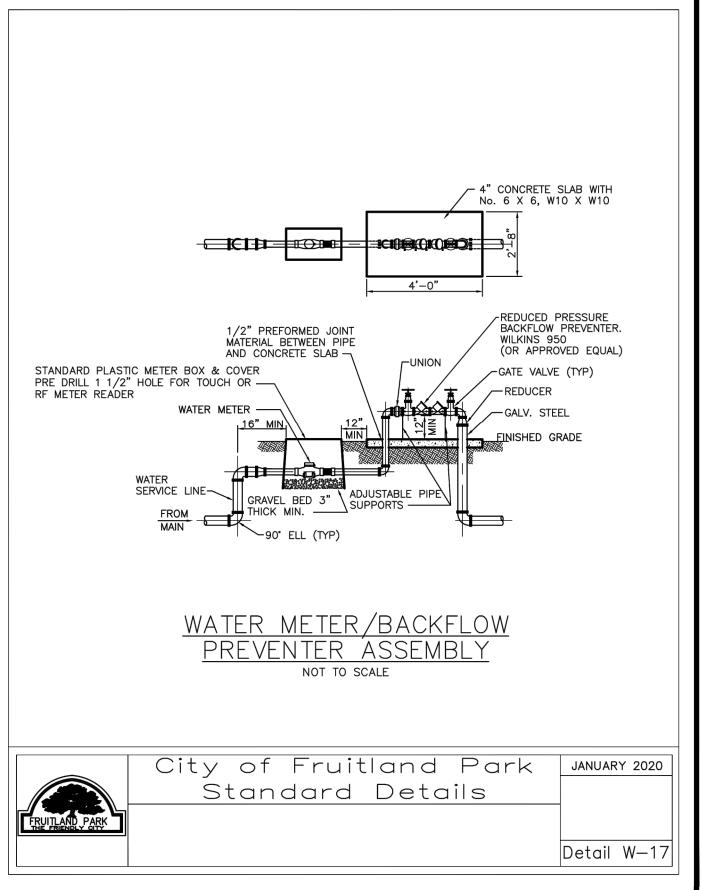
BY:	RWB	JE	RWB					
REVISION/ISSUE:	CITY OF FRUITLAND PARK COMMENTS	FDOT COMMENTS	07/13/21 SJRWMD COMMENTS					
DATE:	05/11/21	06/30/21	07/13/21					
:ON	1	2	4					
ENGINEER'S NAME & PE#							#	

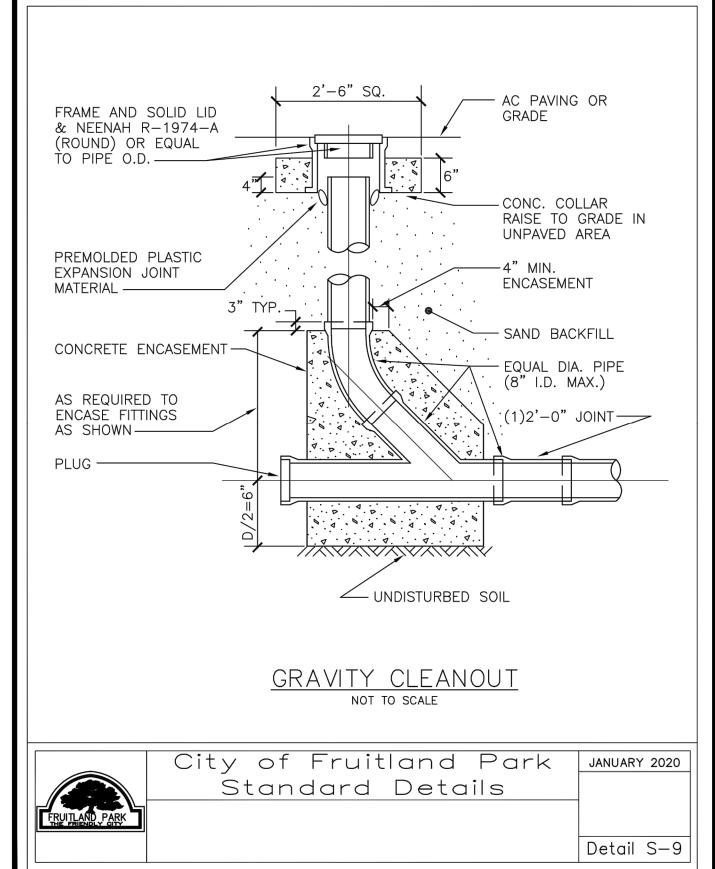
JEREMY R. ANDERSON, P.E P.E. LICENSE NO. 71636

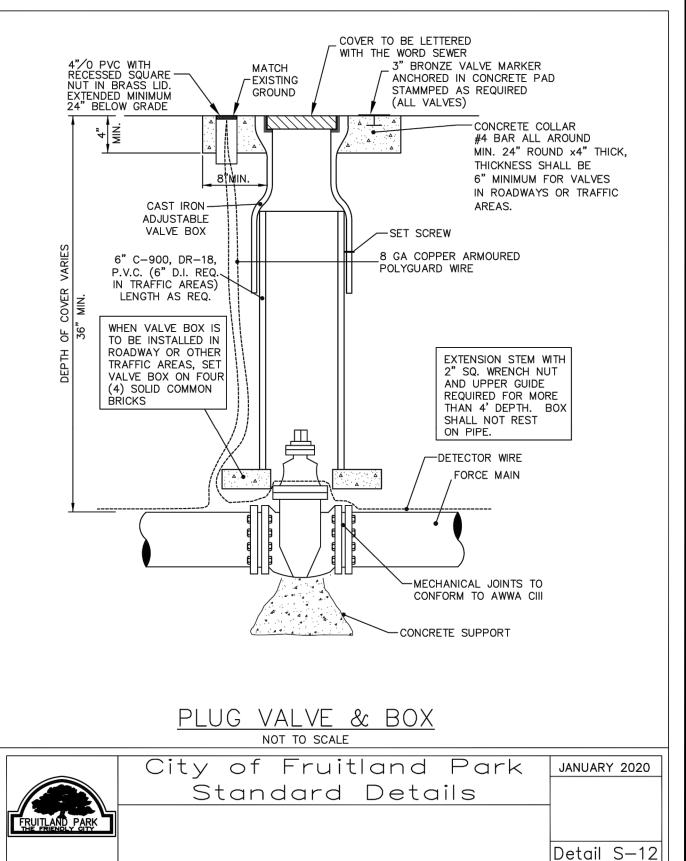


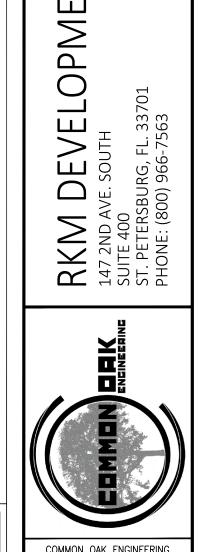










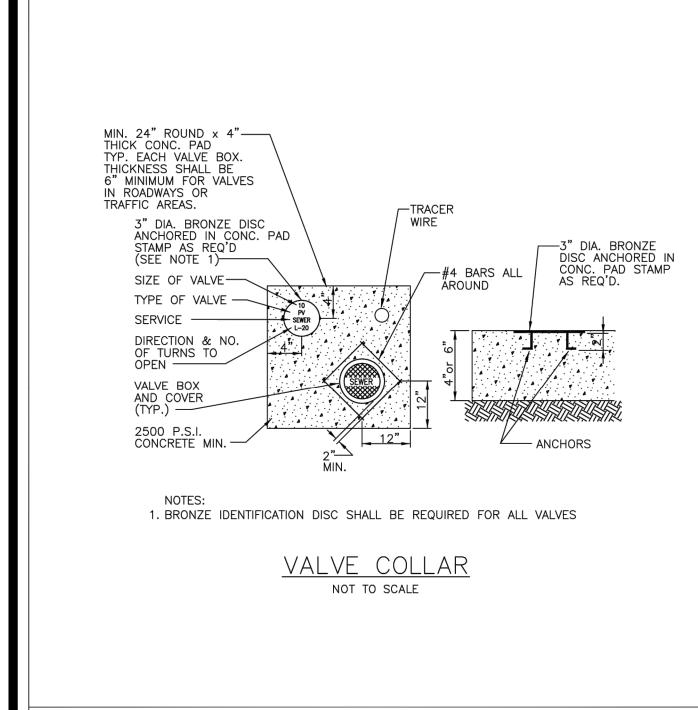


RP

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COMMON OAK ENGINEERING 209 EDGEWATER DRIVE, SUITE 100 ORLANDO, FL. 32804 (407)951-5915 CERTIFICATE OF AUTHORIZATION: 32644

**7-ELEVEN**STORE # 42100
S HWY 441 AT LAKE ELLA

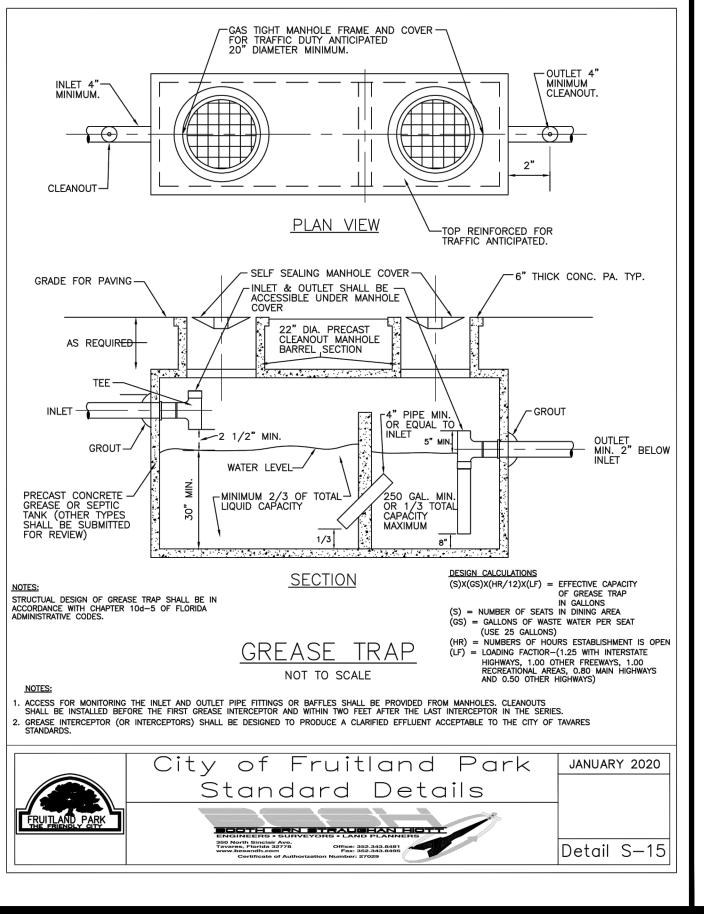


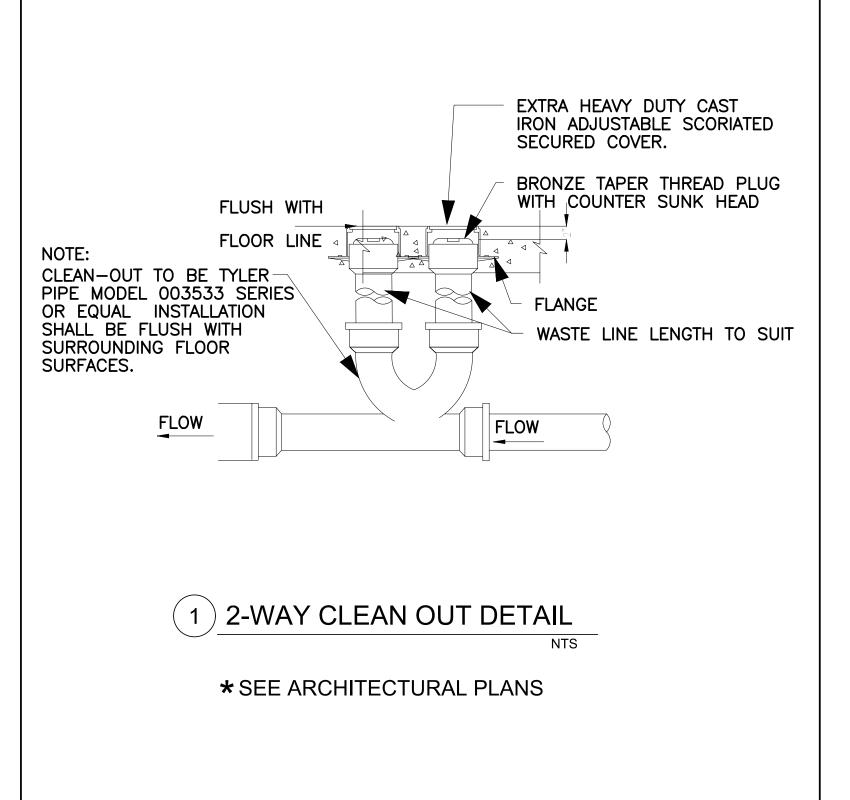
City of Fruitland Park

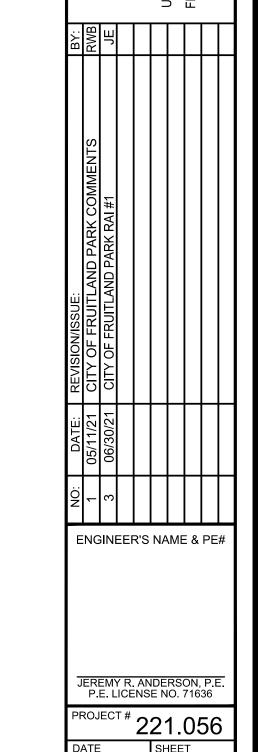
Standard Details

JANUARY 2020

Detail S-14







01/28/2022

N.T.S.

**UTILITY DETAILS** 

### NOTE: COMPLETE SYSTEM TO BE SUPPLIED BY:

# RILEY & COMPANY, INC. SANFORD, FL 32773 (407)265-9963

NO SUBSTITUTIONS - NO ALTERNATES LIFT STATION WILL BE PRIVATELY OWNED AND MAINTAINED.

The H-20 Load Rated Fiberglass Wetwell Must Be Manufactured By L.F. Manufacturing, Giddings, Texas, Which Includes a 20 Yr. Warranty. Certification of the wetwell H-20 load rating must be supplied with submittals. H-20 certification must be signed and sealed by an engineer registered in the State of Florida.

After the H-20 load rated wetwell has been installed, the ASTM Certification Number and Serial Tracking Number must be visible inside wetwell.

#### PUMPS: (3 YR. WARRANTY)

Submersible grinder pumps shall be HOMA Model RC30074. The pumps shall be installed in the H-20 GP FRP wetwell utilizing a slide rail system.

The grinder unit shall be capable of macerating materials normally found in domestic and commercial sewage into a fine slurry which will pass through the pump and the HDPE discharge piping.

Stator winding shall be open type with Class H insulation and shall be heatshrink fitted into the stator housing. The use of pins, bolts, or other fastening devices is not acceptable.

A heat sensor thermostat shall be attached to the top end of the motor winding and shall be connected in series with the magnetic contactor coil in the control panel to stop motor if winding temperature exceeds 140 C., but shall automatically reset when the winding temperature returns to normal. Two heat sensor thermostats shall be used on three phase motors.

The pump motor grinder shaft shall be AISI 430F SS threaded to take the pump impeller and the grinder impeller.

Upper & lower mechanical seals shall be Silicon Carbide vs Silicon Carbide.

DUPLEX CONTROL PANEL: (3 YR. WARRANTY)

The Enclosure shall be NEMA 4X, minimum 30" high x 30" wide x 10" deep fiberglass with 4 point latching system.

The enclosure shall have external mounting feet to allow for wall mounting. The following components shall be mounted through the enclosure:

1- ea. Red Alarm Beacon (Light) 4" x 4" Minimum Diameter

1- ea. Alarm Horn (minimum 95 DCB)

1- ea. Generator Receptacle w/ weatherproof cover(SCM460 -UL 1686)

1- ea. Alarm Silence Pushbutton

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

The following components shall be mounted to back panel:

2- ea. Motor Contactors

1- ea. Phase Monitor (3 Ph) w/2 N/O & 1 N/C Contacts 1- ea. Control Transformer (480 Volt Only) (Min. 500VA)

1- ea. Lightning Arrestor

1- ea. Silence Relay Module

1- ea. Duplex Alternator w/ Pump Selector Switch

1- ea. Model RCBB5AH Battery Back-Up w/ Smart Charger For The High Level Alarm System

20- ea. Terminals For Field Connections

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

7- ea. Grounding Lugs

1- ea. Seal Failure Relay

The inner door shall be fabricated from .080, 5052-H32 marine alloy aluminum. The inner door shall have a continuous aluminum piano

The following components shall be mounted through the inner door: 1- ea. Main Circuit Breaker

1- ea. Emergency Circuit Breaker

1- ea. Mechanical Interlock For Emergency And Main Breakers (UL Listed)

2- ea. Short Circuit Protectors w/ Auxiliary Contacts

1- ea. Control Circuit Breaker

2- ea. Seal Failure Indicator Lights

1- ea. Hand-Off-Auto Selector Switches

2- ea. Pump Run Pilot Lights

1- ea. Power On Pilot Light

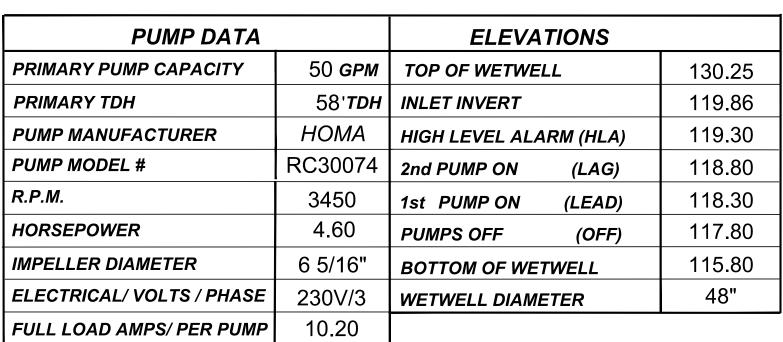
2- ea. Elapse Time Meters (Non-Resetable)

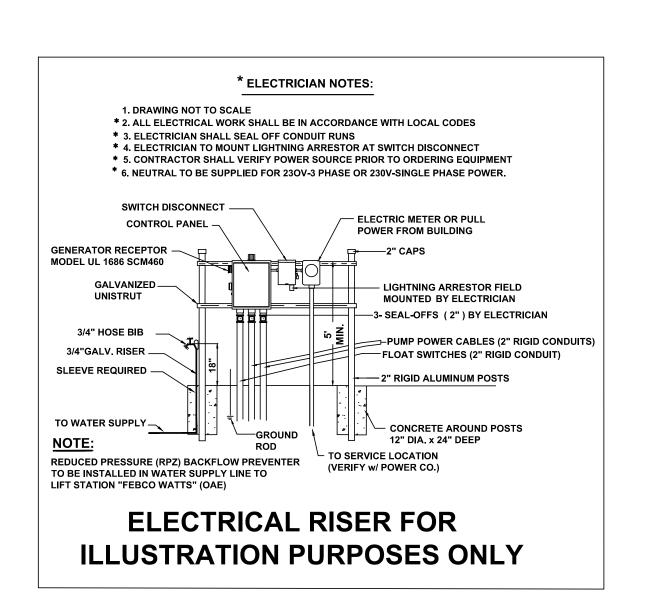
1- ea. GFI Duplex Convenience Outlet

# RILEY & Company, Inc. (H-20 GP)

w/BATTERY BACK-UP FOR AUDIO AND VISUAL ALARMS (C)





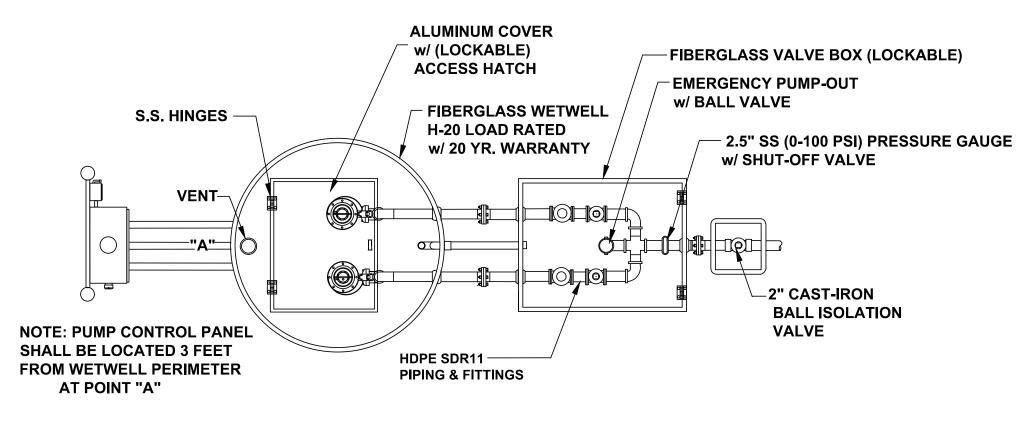


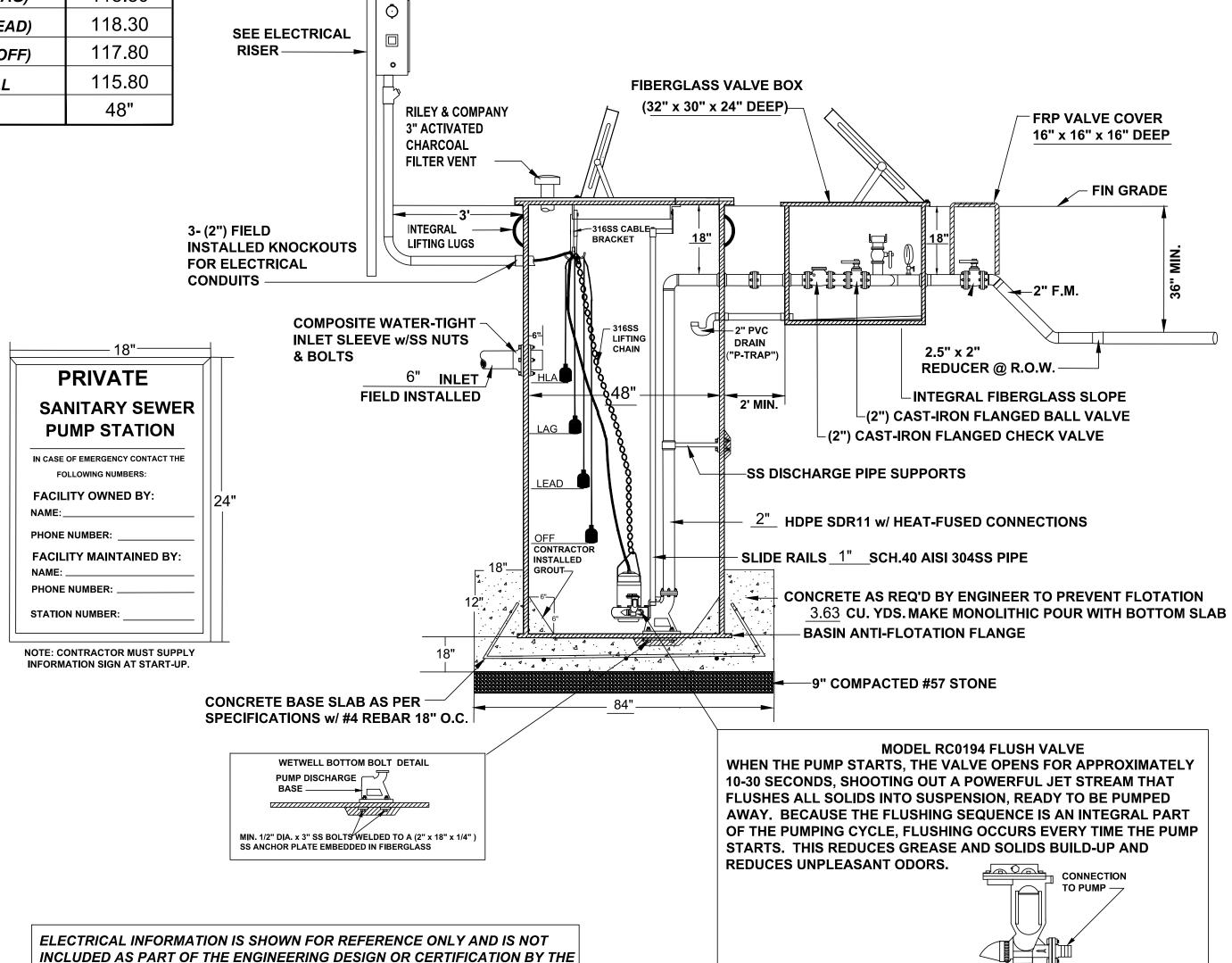
# **NOTES:**

- 1. Water service with hose bibb and reduced pressure backflow preventer to be installed near lift station. (See Electrical Riser Illustration)
- 2. System shall be operated and maintained to provide uninterrupted service as required by DEP Chapter 62-604.500.
- 3. Approved Operation & Maintenance Manual(O&M) shall be kept available

PUMP DISCHARGE SIZE

- for operation and maintenance personnel
- 4. A weather resistant emergency contact sign shall be installed at the lift station and made visible to the public (Lettering shall be min. 2" in height.
- 5. INSPECTION & TESTING: A factory representative shall be provide for a one (1) time start-up and shall have complete knowledge of the proper operation and maintenance for the complete system.





PROFESSIONAL ENGINEER. ANY ELECTRICAL DESIGN NEEDED FOR THE LIFT

STATION SHALL BE CONFIRMED AND CERTIFIED BY A PROFESSIONAL

ELECTRICAL ENGINEER.



 $\propto$ 0  $\bigcirc$ ENT

PMDEVELOR

 $\leq$ **S** ST. ST.

COMMON OAK ENGINEERING 09 EDGEWATER DRIVE, SUITE ORLANDO, FL. 32804 (407)951-5915 RTIFICATE OF AUTHORIZATION: 32

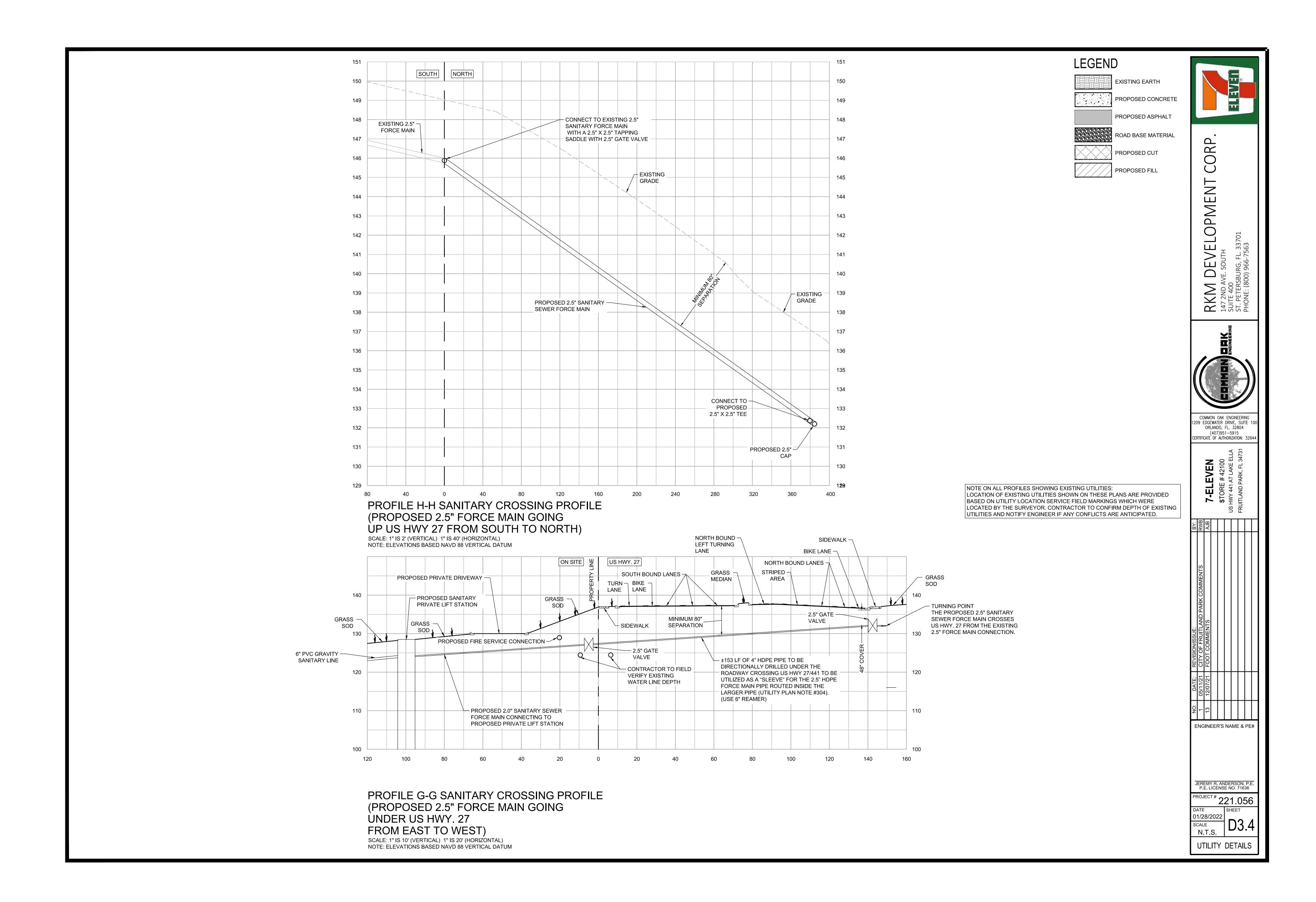
/EN

ENGINEER'S NAME & PE#

JEREMY R. ANDERSON, P.E. P.E. LICENSE NO. 71636 PROJECT # 221.056

01/28/2022 N.T.S.

**UTILITY DETAILS** 



# ALTA/NSPS LAND TITLE SURVEY

**DESCRIPTION:** 

(FROM TITLE COMMITMENT)

THE HIGHWAY.

A PORTION OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 33,

COMMENCE AT THE NORTH 1/4 CORNER OF SAID SECTION 33; RUN THENCE S89°51'42"E, ALONG THE

NORTH LINE OF THE NE 1/4 OF SAID SECTION 33, A DISTANCE OF 1327.14 FEET TO THE WEST LINE OF

THE NW 1/4 OF THE NE 1/4 OF THE NE 1/4 OF SAID SECTION 33; THENCE S00°16'00"W, ALONG SAID

U.S. HIGHWAY 27/441 AS SHOWN ON FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY

N00°16'00"E A DISTANCE OF 305.00 FEET; THENCE N89°45'01"W A DISTANCE OF 75.00 FEET TO SAID

WEST LINE OF THE NW 1/4 OF THE NE 1/4 OF THE NE 1/4 OF SECTION 33; THENCE N00°16'00"E, ALONG

A PORTION OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 33,

TOWNSHIP 18 SOUTH, RANGE 24 EAST, AND A PORTION OF THE SOUTHWEST 1/4 OF THE SOUTHEAST

1/4 OF THE SOUTHEAST 1/4 OF SECTION 28, TOWNSHIP 18 SOUTH, RANGE 24 EAST, LAKE COUNTY,

COMMENCE AT THE NORTH 1/4 CORNER OF SAID SECTION 33; RUN THENCE S89°51'42"E ALONG THE

WEST LINE OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SAID SECTION

28 FOR A POINT OF BEGINNING; THENCE N00°08'18"E ALONG SAID WEST LINE A DISTANCE OF 50.00

CONCAVE NORTHWESTERLY HAVING A RADIUS OF 1892.20 FEET, A CHORD BEARING OF \$15°08'17"W

SECTION 33; THENCE S89°51'42"E ALONG SAID NORTH LINE A DISTANCE OF 113.50 FEET TO THE WEST

OF 28.23 FEET; THENCE N89°51'42"W A DISTANCE OF 353.22 FEET TO THE WEST LINE OF THE NW 1/4

OF THE NE 1/4 OF THE NE 1/4 OF SAID SECTION 33; THENCE NO0°16'00"E ALONG SAID WEST LINE A

FEET; THENCE S89°51'42"E A DISTANCE OF 275.50 FEET TO A NON-TANGENT POINT ON A CURVE

AND A CHORD DISTANCE OF 51.76 FEET; THENCE RUN SOUTHWESTERLY ALONG THE ARC OF SAID

CURVE THROUGH A CENTRAL ANGLE OF 01°34'03" A DISTANCE OF 51.77 FEET TO A POINT ON THE

TRANSPORTATION RIGHT OF WAY MAP, F.P. NO. 238395-4, SECTION 11040; THENCE S02°14'34"W ALONG SAID WEST RIGHT-OF-WAY LINE A DISTANCE OF 70.06 FEET; THENCE N44°44'13"W A DISTANCE

NORTH LINE OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SAID

RIGHT-OF-WAY LINE OF U.S. HIGHWAY 27/441 AS SHOWN ON FLORIDA DEPARTMENT OF

NORTH LINE OF THE NE 1/4 OF SAID SECTION 33, A DISTANCE OF 1327.14 FEET TO A POINT ON THE

MAP, F.P. NO. 238395-4, SECTION 11040; THENCE S02°14'34"W, ALONG SAID WEST RIGHT-OF-WAY

LINE, A DISTANCE OF 354.23 FEET; THENCE N89°51'34"W A DISTANCE OF 285.97' FEET; THENCE

SAID WEST LINE, A DISTANCE OF 68.84 FEET TO THE POINT OF BEGINNING.

FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

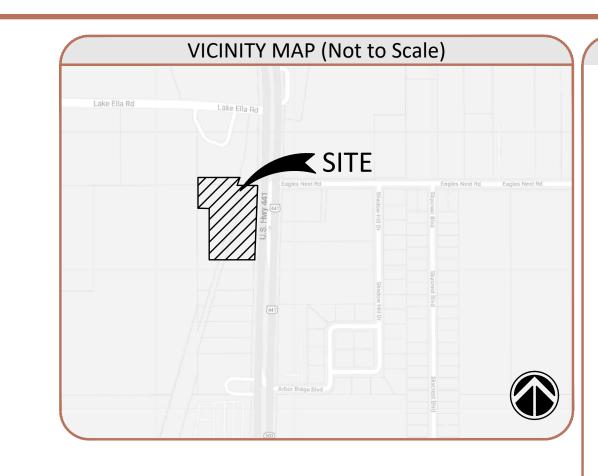
DISTANCE OF 50.00 FEET TO THE POINT OF BEGINNING.

WEST LINE, A DISTANCE OF 50.00 FEET FOR A POINT OF BEGINNING; THENCE S89°51'42"E A DISTANCE

OF 353.22 FEET; THENCE S44°44'13"E A DISTANCE OF 28.23 FEET TO THE WEST RIGHT-OF-WAY LINE OF

TOWNSHIP 18 SOUTH, RANGE 24 EAST, LAKE COUNTY, FLORIDA, BEING MORE PARTICULARLY

AND EXCEPT RAILROAD RIGHT-OF-WAY.



### **GENERAL SURVEY NOTES:**

- 1. BEARING STRUCTURE IS BASED ON THE MONUMENTED WEST RIGHT-OF-WAY LINE OF US HIGHWAY 27/441. BEING: S02°14'34"W PER FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY MAP F.P. NO. 238395-4, SECTION 11040.
- 2. THIS SURVEY REFLECTS ONLY MATTERS OF RECORD AS PROVIDED BY THE CLIENT OR CLIENTS
- 3. THIS SURVEY WAS MADE ON THE GROUND. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. ENGINEER AND CONTRACTOR SHALL VERIFY MEASUREMENTS OF CONNECTIONS TO EXISTING UTILITIES BEFORE ORDERING MATERIALS AND BEFORE COMMENCEMENT OF CONSTRUCTION. IF THERE IS A DISCREPANCY BETWEEN THE MEASUREMENTS SHOWN HEREON AND THE VERIFYING MEASUREMENTS, THIS SURVEYOR SHALL BE CONTACTED IMMEDIATELY TO FURTHER VERIFY THE DISCREPANCY.
- 4. THIS SITE LIES IN ZONE "X", BASED ON FLOOD INSURANCE RATE MAP NO. 12069C0170E, COMMUNITY NO. 120421, LAKE COUNTY, FLORIDA, HAVING AN EFFECTIVE DATE OF DECEMBER 18,
- 5. ACCORDING TO FLORIDA STATUTES, CHAPTER 472.025, A LAND SURVEYOR SHALL NOT AFFIX HIS SEAL OR NAME TO ANY PLAN OR DRAWING WHICH DEPICTS WORK WHICH HE IS NOT LICENSED TO PERFORM OR WHICH IS BEYOND HIS PROFESSION OR SPECIALTY THEREIN. THEREFORE, WE ARE UNABLE TO CERTIFY AS TO MUNICIPAL ZONING COMPLIANCE, INTERPRETATION OF ZONING CODES OR THE DETERMINATION OF VIOLATIONS THEREOF.
- 6. THIS SURVEY MADE WITH BENEFIT OF COMMITMENT FOR TITLE ORDER NO. 8880966, EFFECTIVE: OCTOBER 7, 2020, ISSUED BY FIDELITY NATIONAL TITLE INSURANCE COMPANY. THE LEGAL DESCRIPTION SHOWN HEREON IS THE SAME AS THE LEGAL DESCRIPTION SET FORTH IN SCHEDULE A OF THE TITLE COMMITMENT REFERENCED HEREON.
- 7. THIS "BOUNDARY AND TOPOGRAPHIC SURVEY" WAS MADE IN ACCORDANCE WITH LAWS AND/OR STANDARDS OF PRACTICE FOR THE STATE OF FLORIDA.
- 8. THE PROPERTY HAS DIRECT ACCESS TO US HIGHWAY 27/441, A PAVED PUBLIC RIGHT-OF-WAY.
- 9. OBSERVABLE SURFACE EVIDENCE OF UTILITIES SERVING THE PROPERTY AND STORM DRAINAGE FACILITIES ARE SHOWN HEREON.
- 10. ALL PARCELS AND/OR LOTS SHOWN HEREON ARE CONTIGUOUS BETWEEN SAID PARCELS AND/OR LOTS AND DO NOT CREATE ANY GAPS, GORES OR HIATUSES.
- 11. NO SURFACE EVIDENCE OF SITE USE AS A CEMETERY WAS OBSERVED.
- 13. ELEVATIONS ARE BASED ON BENCHMARK DESIGNATION LCBM E26. BEING: 129.90 FEET. NAVD 88. PUBLISHED BY LAKE COUNTY, FLORIDA.
- 14. THE MAPPED FEATURES SHOWN HEREON ARE RELATIVE TO FLORIDA STATE PLANE COORDINATE SYSTEM EAST ZONE, NAD(83)-(2011)-(EPOCH 2010.0000), ESTABLISHED PER FDOT FPRN.
- NOTES PERTAINING TO TABLE A ITEMS OF ALTA/NSPS LAND TITLE SURVEY STANDARDS:
- ITEM 16: NO EVIDENCE OF CURRENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR ADDITIONS WAS OBSERVED.
- ITEM 17: SURVEYOR IS NOT AWARE OF ANY PROPOSED CHANGES IN STREET RIGHT-OF-WAY LINES AND DID NOT OBSERVE ANY EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS.
- ITEM 18: NO DELINEATED WETLANDS WERE OBSERVED.
- ITEM 19: CLIENT PROVIDED NO RECORDING INFORMATION FOR OFFSITE EASEMENTS.

### **SCHEDULE B-2 EXCEPTIONS NOTES:**

6. UTILITY EASEMENT BY AND BETWEEN LEVY A. WONG, GRANTOR, AND THE CITY OF FRUITLAND PARK, GRANTEE, RECORDED SEPTEMBER 19, 2005, IN OFFICIAL RECORDS BOOK 2951, PAGE 1953. (ON SUBJECT PROPERTY, SHOWN HEREON.)

# **SIGNIFICANT OBSERVATIONS:**

WITHOUT EXPRESSING A LEGAL OPINION AS TO OWNERSHIP OR NATURE, THE FOLLOWING SIGNIFICANT OBSERVATIONS ARE NOTED. ADDITIONAL ITEMS MAY BE DEPICTED HEREON THAT HAVE NOT BEEN INCLUDED IN THIS LIST:

NONE APPARENT

# **ZONING INFORMATION:**

ZONING INFORMATION NOT PROVIDED AT THE TIME OF SURVEY.

**DESCRIPTION:** 

DESCRIBED AS FOLLOWS:

**DESCRIPTION:** 

(LAKE COUNTY TRACT)

(7-ELEVEN SITE)

# **DESCRIPTION:**

THAT PART OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 33,

TOWNSHIP 18 SOUTH, RANGE 24 EAST, LAKE COUNTY, FLORIDA LYING WEST OF THE HIGHWAY, LESS

TOGETHER WITH THAT PORTION OF THE LANDS DESCRIBED IN THAT FINAL JUDGEMENT QUIETING

TITLE RECORDED IN OFFICIAL RECORDS BOOK 3578, PAGE 2451 OF THE PUBLIC RECORDS OF LAKE

COUNTY, FLORIDA, LYING WITHIN THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF THE NORTHEAST

1/4 OF SECTION 33, TOWNSHIP 18 SOUTH, RANGE 24 EAST, LAKE COUNTY, FLORIDA, LYING WEST OF

### (LINDA HYATT TRACT)

A PORTION OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 28, TOWNSHIP 18 SOUTH, RANGE 24 EAST, LAKE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTH 1/4 CORNER OF SECTION 33, TOWNSHIP 18 SOUTH, RANGE 24 EAST, LAKE COUNTY, FLORIDA; RUN THENCE S89°51'42"E ALONG THE NORTH LINE OF THE NORTHWEST 1/4 OF SAID SECTION 33 A DISTANCE OF 1327.14 FEET TO A POINT ON THE WEST LINE OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SAID SECTION 28 FOR A POINT OF BEGINNING; THENCE N00°08'18"E ALONG SAID WEST LINE A DISTANCE OF 50.00 FEET; THENCE S89°51'42"E A DISTANCE OF 275.50 FEET TO A NON-TANGENT POINT ON A CURVE CONCAVE NORTHWESTERLY HAVING A RADIUS OF 1892.20 FEET, A CHORD BEARING OF S15°08'17"W AND A CHORD DISTANCE OF 51.76 FEET; THENCE RUN SOUTHWESTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 01°34'03" A DISTANCE OF 51.77 FEET TO A POINT ON SAID NORTH LINE OF THE NORTHWEST 1/4 OF SECTION 33; THENCE N89°51'42"W ALONG SAID NORTH LINE A DISTANCE OF 262.10 FEET TO THE POINT OF BEGINNING.

# **DESCRIPTION:**

### (FRUITLAND LAKE ELLA LLC TRACT)

A PORTION OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 33, TOWNSHIP 18 SOUTH, RANGE 24 EAST, LAKE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTH 1/4 CORNER OF SAID SECTION 33; RUN THENCE S89°51'42"E ALONG THE NORTH LINE OF THE NE 1/4 OF SAID SECTION 33, A DISTANCE OF 1327.14 FEET FOR A POINT OF BEGINNING; THENCE CONTINUE S89°51'42"E ALONG THE NORTH LINE OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SAID SECTION 33 A DISTANCE OF 375.60 FEET TO THE WEST RIGHT-OF-WAY LINE OF U.S. HIGHWAY 27/441 AS SHOWN ON FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP, F.P. NO. 238395-4, SECTION 11040; THENCE S02°14'34"W ALONG SAID WEST RIGHT-OF-WAY LINE A DISTANCE OF 424.28 FEET; THENCE N89°51'34"W A DISTANCE OF 285.97 FEET; THENCE N00°16'00"E A DISTANCE OF 305.00 FEET; THENCE N89°45'01"W A DISTANCE OF 75.00 FEET TO THE WEST LINE OF THE NW 1/4 OF THE NE 1/4 OF THE NE 1/4 OF SAID SECTION 33; THENCE NO0°16'00"E ALONG SAID WEST LINE A DISTANCE OF 118.84 FEET TO THE POINT OF BEGINNING.

### PARKING COUNT:

**REGULAR SPACES:** HANDICAP SPACES: TOTAL SPACES:

LAND AREA OF ACQUISITION TRACTS:

LINDA HYATT TRACT:

FRUITLAND LAKE ELLA TRACT: 133,269 SQUARE FEET OR 3.0594 ACRES MORE OR LESS.

13,446 SQUARE FEET OR 0.3087 ACRES MORE OR LESS.

146,715 SQUARE FEET OR 3.3681 ACRES, MORE OR LESS

the 2016 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established

Date: October 19, 2020

JAMES D. BRAY PSM 6507

This Survey is "Not Valid" without the signature and the original raised seal of this Florida licensed Surveyor and Mapper, unless provided with electronic signature with the ability to validate. (See: www.altamaxsurveying.com for instructions on signature validation). The seal appearing on this document was authorized by the signing Professional Surveyor and Mapper on the Date of the electronic signature.

## ALTA/NSPS Land Title Survey Certification

To: 441 Lake Ella, LLC, a Florida limited liability company; Fidelity National Title Insurance Company

This is to certify that this map or plat and the survey on which it is based were made in accordance with and adopted by ALTA and NSPS, and includes items 1, 2, 3, 4, 5, 6(a), 6(b), 7(a), 7(b1), 7(c), 8, 9, 11, 13, 14, 16, 17, 18, 19 and 20 of Table A thereof. The field work was completed on October 19, 2020.

Revisions Description 1/12/2021 Additional Inverts, Pole Dimensions SAH 2/15/2021 Add Right-of-way for Eagles Nest Road SAH 7/14/2021 Descriptions for land transfers GLT 11/16/2021 Revise Desc for land transfers JB

# **Altamax Surveying**

LEGEND

-BB- - BOTTOM OF BANK BHM - BUILDING HEIGHT MEASUREN - BACK FLOW PREVENTER

 BOLLARD E- - BURIED ELECTRIC LINE ALC - CALCULATED C&M - CALCULATED & MEASURE CBW - CONCRETE BLOCK WALL R - CERTIFIED CORNER RECORT CF - CONCRETE FLUME - CHAIN LINK FENCE - CENTERLINE - CONCRETE MONUMEN

CONC - CONCRETE - CONCRETE PAD - CURB INLET
CW - CONCRETE WALKWAY -D- - BURIED STORM/DRAIN LIN B - DEED BOOK - DRAINAGE EASEMEN

- DOT INLET - DRIVEWAY - EASEMENT NUMBER - ELECTRIC BOX EMD - ELECTRICAL METER ESMT - EASEMENT

G-FH - FIRE HYDRANT

ESMI - EASEMENI

EP - EDGE OF PAVEMENT
- FLORIDA DEPARTMENT OF
TRANSPORTATION
- FLORIDA PERMANENT REFERENCE
NETWORK
FIRM - FLOOD INSURANCE RATE MAP
FFE - FINISHED FLOOR ELEVATION

-FM- - BURIED FORCE MAIN LINE

FOC - FIBER OPTIC CABLE BOX BURIED GAS LINE GM - GAS METER GV - GAS VALVE

G - GREASE TRAP MANHOLE - GUY WIRE ANCHOR - HANDICAP PARKING

INV - INVERT ELEVATION

- ARC LENGTH

- LANDSCAPED AREA

 MITERED END SECTION MONITORING WELL

ORB - OFFICIAL RECORDS BOOK

PC - POINT OF CURVATURE PCC - POINT OF COMPOUND CURVATURE
PP - PER PLANS

PI - POINT OF INTERSECTION

POC - POINT OF COMMENCEMEN

- POINT OF REVERSE CURVATURE

PSM - PROFESSIONAL SURVEYOR & MAPPER
PSP - PEDESTRIAN SIGNAL POLE

POB - POINT OF BEGINNING

PT - POINT OF TANGENCY

- CURVE RADIUS RCP - REINFORCED CONCRETE PIP

-
- REUSE WATER METER

- - REUSE WATER VALVE

W - RIGHT-OF-WAY

- SANITARY MANHOLE

- BURIED SANITARY LINE

SDO - SHOWN FOR DIRECTION ONLY

- BURIED TELECOMMUNICATIONS LINE

TELECOMMUNICATIONS MANHOLE

TRANSFORMER/JUNCTION BO - TELEPHONE RISER

**ADDRESS:** 

0 US Highway 27/441

Fruitland Park, FL 34731

Job Information

- STOCK WIRE FENCE

SV - SEWER VALVE

- STORM INLET

- TOP OF BANK TP - TRAFFIC SIGNAL POL

- TELEVISION RISER / - TRAFFIC SIGNAL WIRE TYP - TYPICAL
-U- - UNKNOWN UTILITY

UE - UTILITY EASEMENT
OUP - UTILITY POLE

VF - VINYL FENCE

WF - WOOD FENCE

WS - WOOD SHED
- WATER VALVE

→ - WATER METER
YD - YARD DRAIN

JOB NO. 904020

SCALE: 1" = 30'

PSM6507 STATE OF

FLORIDA

DRAWN BY: SAH

CF NO. LAK-US HWY 27

FIELD DATE: 12/17/2020

UM - UTILITY MARKER
VCP - VITRIFIED CLAY PIPE

STORM MANHOLE

PVC - POLYVINYL CHLORIDE PIPE

# PS - PARKING SPACES

NAVD - NORTH AMERICAN VERTICAL DATUM NAD - NORTH AMERICAN DATUM

NGVD - NATIONAL GEODETIC VERTICAL DATUM

IR - IRON ROD

- LICENSED SURVEYOR

MF - METAL FENCE

- NAIL & DISK

PB - PLAT BOOK

IDPE - HIGH DENSITY POLYETHYLENE PIPE INST# - RECORD INSTRUMENT#

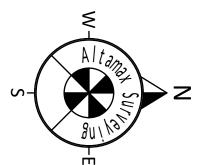
- BURIED FIBER OPTIC CABLE LINE

910 Belle Avenue, Suite 1100 Casselberry, FL 32708 Phone: 407-677-0200 Licensed Business No. 7833 www.altamaxsurveying.com



SHEET 1 OF 5







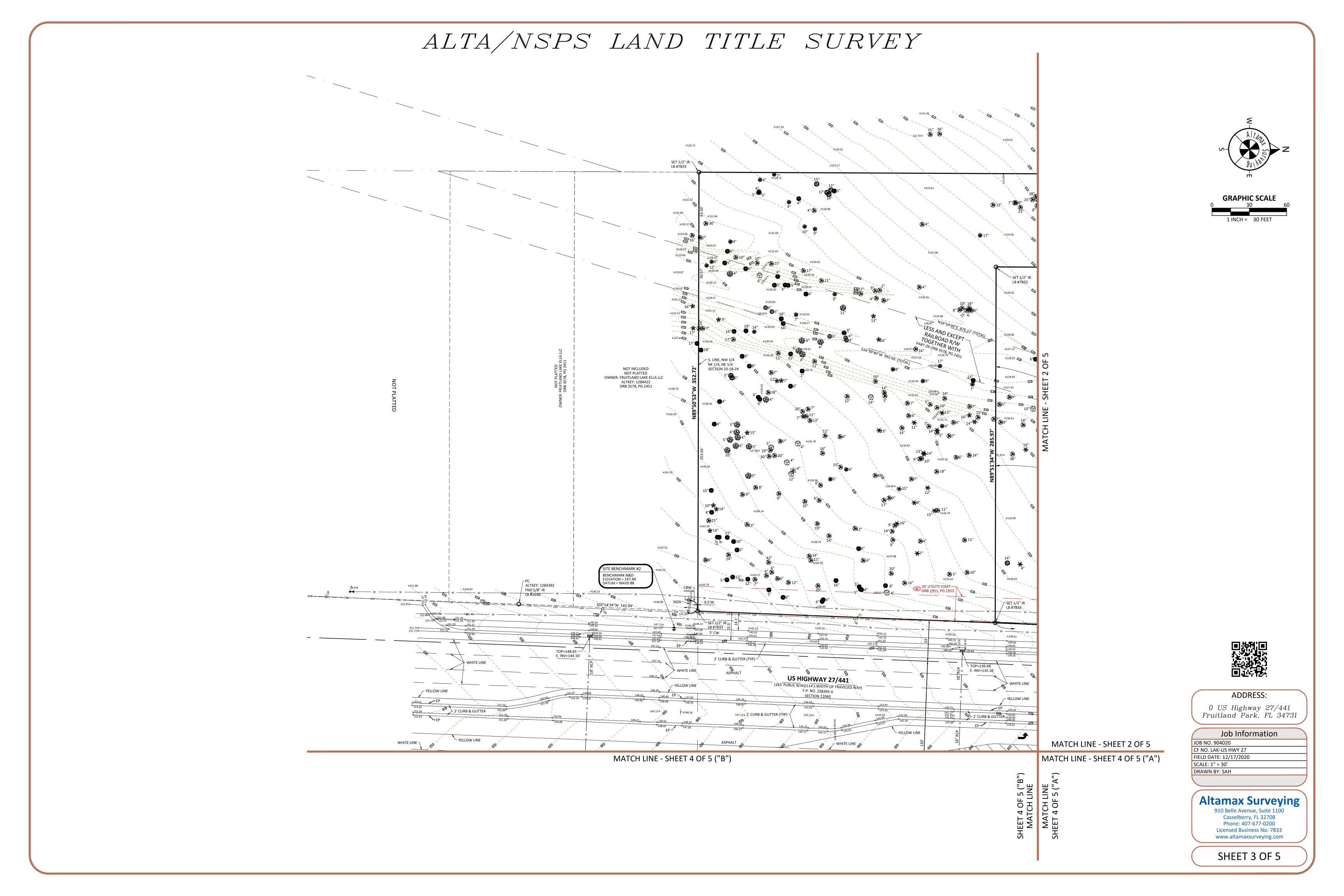
0 US Highway 27/441 Fruitland Park, FL 34731

Job Information

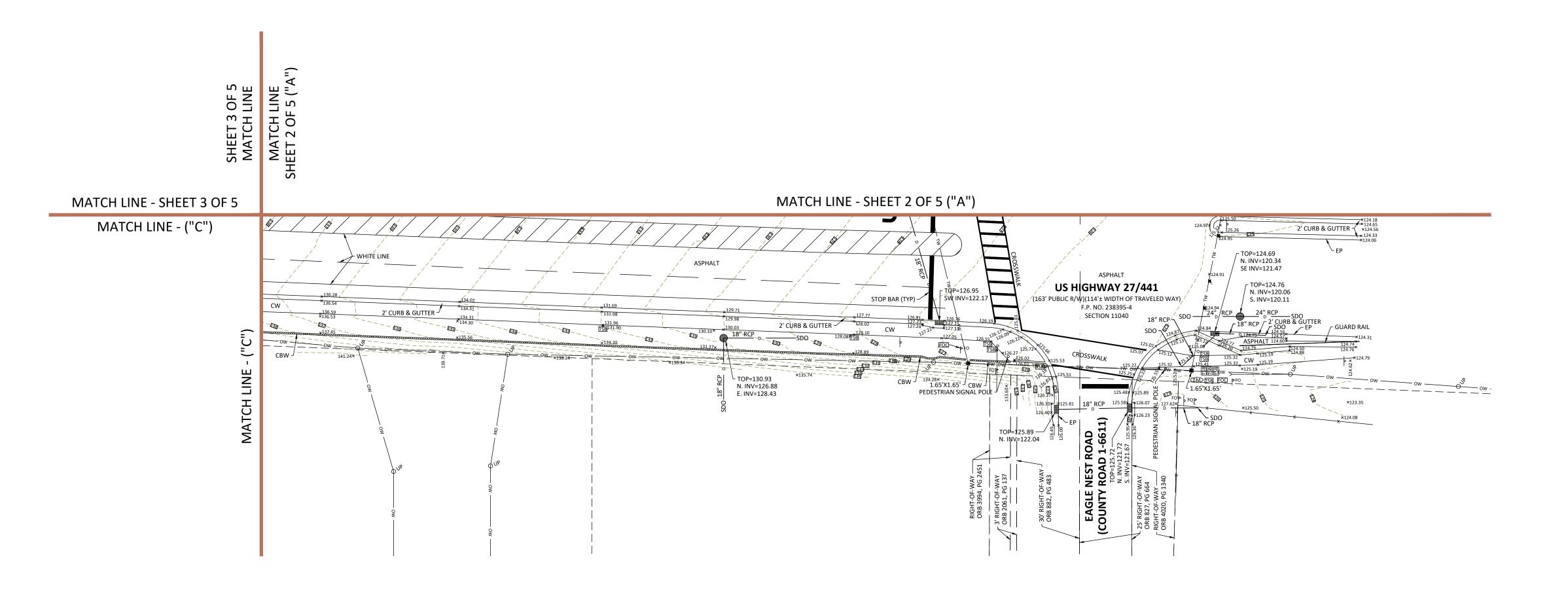
910 Belle Avenue, Suite 1100 Casselberry, FL 32708 Phone: 407-677-0200

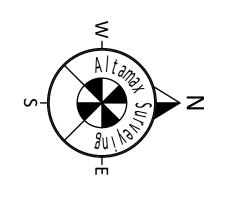
Licensed Business No. 7833 www.altamaxsurveying.com

SHEET 2 OF 5

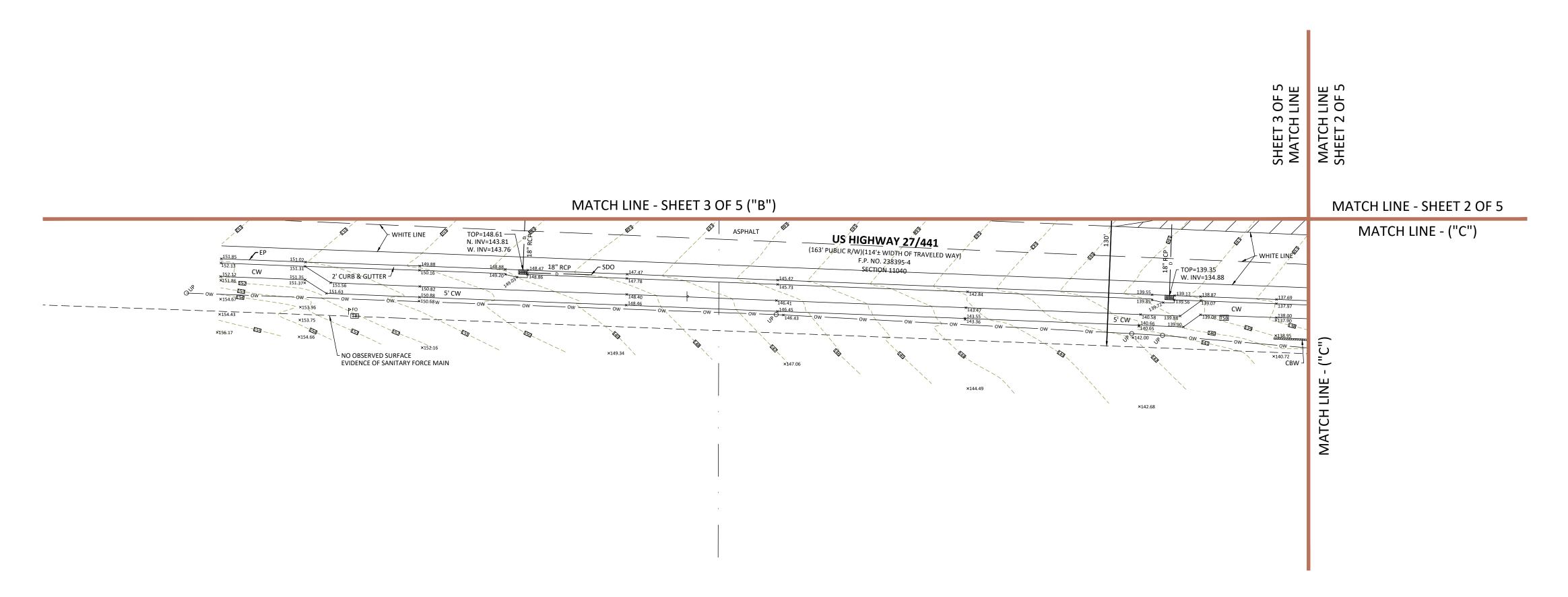


# ALTA/NSPS LAND TITLE SURVEY





GRAPHIC SCALE
0 30





ADDRESS:

0 US Highway 27/441 Fruitland Park, FL 34731

Job Information
JOB NO. 904020

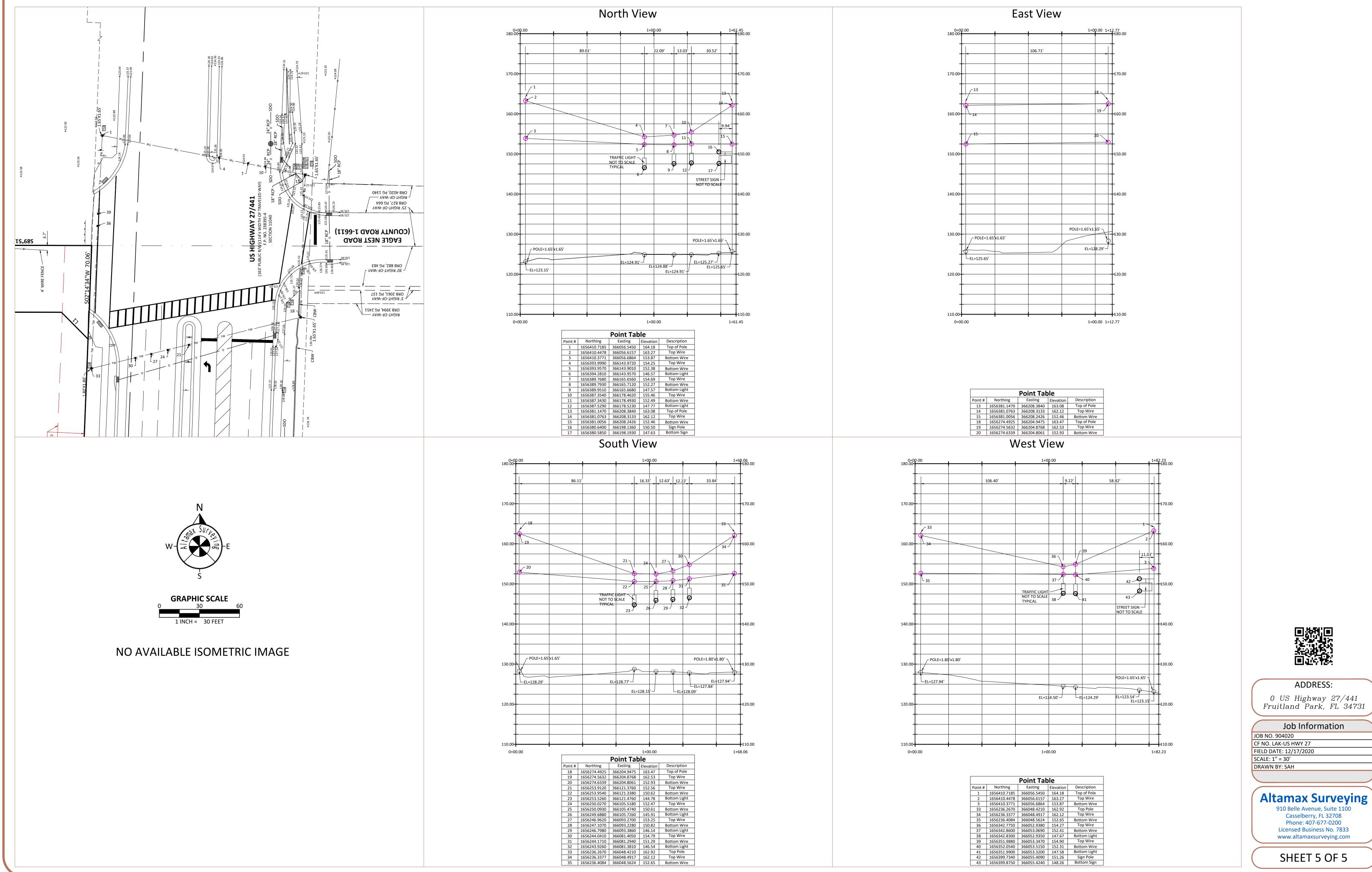
CF NO. LAK-US HWY 27
FIELD DATE: 12/17/2020
SCALE: 1" = 30'
DRAWN BY: SAH

Altamax Surveying

910 Belle Avenue, Suite 1100 Casselberry, FL 32708 Phone: 407-677-0200 Licensed Business No. 7833 www.altamaxsurveying.com

SHEET 4 OF 5

# ALTA/NSPS LAND TITLE SURVEY



0 US Highway 27/441

Job Information

910 Belle Avenue, Suite 1100 Casselberry, FL 32708 Phone: 407-677-0200 Licensed Business No. 7833

SHEET 5 OF 5

#### **RESOLUTION 2022-xx**

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF FRUITLAND PARK, FLORIDA, GRANTING MAJOR SITE PLAN APPROVAL WITH CONDITIONS TO ALLOW FOR CONSTRUCTION OF A SEVEN-ELEVEN; PROVIDING FOR CONDITIONS; AUTHORIZING THE CITY MANAGER TO ISSUE A NOTICE OF SITE PLAN APPROVAL UPON COMPLETION OF ALL CONDITIONS; REPEALING RESOLUTION 2021-045 AND NOTICE OF A MAJOR SITE PLAN; AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, Fruitland Park Ella, LLC and R.K.M. Development Corp. has filed an application for Major Site Plan Approval to allow for construction of a new Seven-Eleven building on real property located at xxxx US Hwy 27/441, Fruitland Park; and

**WHEREAS**, the Planning and Zoning Board of the City of Fruitland Park has considered the application in accordance with the Land Development Regulations for Major Site Plan Approval in Chapter 160 of the Land Development Regulations; and

WHEREAS, the City Commission of the City of Fruitland Park has considered the application in accordance with the Land Development Regulations for Major Site Plan Approval in Chapter 160 of the Land Development Regulations, subject to conditions;

## NOW THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF FRUITLAND PARK, LAKE COUNTY, FLORIDA, AS FOLLOWS:

#### Section 1. Granting of Major Site Plan Approval.

The application filed by Fruitland Park Ella, LLC and R.K.M. Development Corp. (hereafter referred to as "Applicant"), to allow for construction of a new Seven-Eleven building on real property located at xxxx US Hwy 27/441, Fruitland Park is hereby GRANTED, with conditions, for the following described property:

A portion of Alt. Key Numbers: 274770

A portion of Parcel Id. Numbers: 33-18-24-0001-000-00400

LEGAL DESCRIPTION: See attached Exhibit A.

#### Section 2. Conditions of Approval.

- (1) Prior to the issuance of a building permit, the Applicant shall resolve, to the satisfaction of the City Manager or designee, the following matters:
  - (a) Applicant must obtain a driveway permit from FDOT for connection of the Property to US Hwy 27/441.

- (b) Applicant must dedicate and convey by right-of-way deed to Lake County right-of-way for Lake Ella Road. Applicant must prepare and provide to Lake County the legal description and sketch of description of the right-of-way as determined by Lake County, along with a copy of the Property boundary survey and title report.
- (c) Applicant must cooperate with FDOT and Lake County for the traffic signal modification at the intersection of US Hwy 27/441 and Lake Ella Road, and execute any required agreements relating to same.
- (2) Site plan approval shall terminate and become null and void automatically without notice if construction has not commenced within twelve (12) months from the date of this conditioned approval.
- (3) The Site Plan is attached hereto and incorporated herein.

This resolution shall become effective immediately upon its passage.

(4) Upon compliance with the conditions set forth above, the City Manager is authorized to issue and record a Notice of Site Plan Approval in the public records of Lake County, Florida.

#### Section 3. Repeal.

Resolution 2021-045 and Notice of a Major Site Plan Approval collectively recorded 11/10/2021 in Official Record Book 5834, Page 825 – 830 Public Records of Lake County, Florida is hereby repealed.

#### **Section 4. Effective Date.**

PASSED and ADOPTED at a regu Fruitland Park, Lake County, Florid				ssion o		y of
SEAL	CITY	COMMISSION	OF	THE	CITY	OF

SEAL	CITY COMMISSION OF THE CITY FRUITLAND PARK, FLORIDA
ATTEST:	CHRIS CHESHIRE, MAYOR
ESTHER COULSON CITY CLERI	

Mayor Cheshire	(Yes),	(No),	(Abstained),	(Absent)
Vice Chairman Gunter	(Yes),	(No),	(Abstained),	(Absent)
Commissioner DeGrave	(Yes),	(No),	(Abstained),	(Absent)
Commissioner Mobilian	(Yes),	(No),	(Abstained),	(Absent)
Commissioner Bell	(Yes),	(No),	(Abstained),	(Absent)
Approved as to form:				
Anita Geraci-Carver, City A	Attorney			

#### **EXHIBIT A**

A portion of the northwest ¼ of the northeast ¼ of the northeast ¼ of section 33, township 18, range 24 east, Lake County, Florida, being more particularly described as follows:

Commence at the north ¼ corner of said section 33; run thence S89° 51'42" E along the north line of the NE ¼ of said section 33, a distance of 1327.14 feet to the west line of the N/W ¼ of the NE ¼ of the NE ¼ of said section 33; thence S00°16'00"W, along said west line, a distance of 50.00 feet for a point of beginning; thence S89°51'42"E a distance of 353.22 feet; thence S44°44'13"E a distance of 28.23 feet to the west right-of-way line of U.S. Highway 27/441 as shown on Florida Department of Transportation right-of-way map, F.P. NO. 238395-4, section 10040; thence S02°14'34"W, along said west right-of-way line, a distance of 354.23 feet; thence N89°51'34"W a distance of 285.97' feet; thence N00°16'00"E a distance of 305.00 feet; thence N89°45'01"W a distance of 75.00 feet to said west line of the NW ¼ of the NE ¼ of the NE ¼ of section 33; thence N00°16'00"E, along said west line, a distance of 68.84 feet to the point of beginning.

#### **RESOLUTION 2022-0XX**

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF FRUITLAND PARK, FLORIDA, GRANTING LOT SPLIT APPROVAL OF PROPERTY LOCATED WEST OF THE INTERSECTION OF US HWY 441 AND EAGLES NEST ROAD, FRUITLAND PARK, FLORIDA, OWNED BY FRUITLAND LAKE ELLA LLC; PROVIDING FOR A NOTICE TO BE RECORDED IN THE PUBLIC RECORDS OF LAKE COUNTY; AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the applicants have petitioned for the division of the Property (hereinafter described), into two separate lots with the remaining portion being deeded to Lake County for road right-of-way; and

**WHEREAS**, the subject property is located west of the intersection of US Hwy 441 and Eagles Nest Road, Fruitland Park; and

WHEREAS, the Planning and Zoning and the City Commission have considered the application in accordance with Sec. 157.050(5)(c) of the City of Fruitland Park Land Development Code;

WHEREAS, the Planning and Zoning recommended approval of the lot split;

**WHEREAS**, the City Commission finds that the lot split is in compliance with the City's land development regulations.

NOW THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF FRUITLAND PARK, LAKE COUNTY, FLORIDA, AS FOLLOWS:

#### Section 1. Granting of Subdivision of Property (Lot Split) Approval.

Approval of the subdivision of property, Lot Split, for the real property described below is **GRANTED**.

LEGAL DESCRIPTION PARENT PARCEL: That part of the Northwest ¼ of the Northeast ¼ of the Northeast ¼ of Section 22, Township 18 South, Range 24 East, Lake County, Florida lying west of the highway, less and except railroad right-of-way. Together with that portion of the lands described in that final judgment quieting title recorded in Official Records Book 3578, Page 2451 of the Public Records of Lake County, Florida, lying within the Northwest ¼ of the Northeast ¼ of the Northeast ¼ of Section 22, Township 18 South, Range 24, East, Lake County, Florida, lying West of the highway.

Parcel Alternate Key No. 2748770

Is subdivided to be:

#### Parcel 1 (7-Eleven Site)

A portion of the northwest ¼ of the northeast ¼ of the northeast ¼ of section 33, township 18, range 24 east, Lake County, Florida, being more particularly described as follows:

Commence at the north ¼ corner of said section 33; run thence S89° 51'42" E along the north line of the NE ¼ of said section 33, a distance of 1327.14 feet to the west line of the N/W ¼ of the NE ¼ of the NE ¼ of said section 33; thence S00°16'00"W, along said west line, a distance of 50.00 feet for a point of beginning; thence S89°51'42"E a distance of 353.22 feet; thence S44°44'13"E a distance of 28.23 feet to the west right-of-way line of U.S. Highway 27/441 as shown on Florida Department of Transportation right-of-way map, F.P. NO. 238395-4, section 10040; thence S02°14'34"W, along said west right-of-way line, a distance of 354.23 feet; thence N89°51'34"W a distance of 285.97' feet; thence N00°16'00"E a distance of 305.00 feet; thence N89°45'01"W a distance of 75.00 feet to said west line of the NW ¼ of the NE ¼ of the NE ¼ of section 33; thence N00°16'00"E, along said west line, a distance of 68.84 feet to the point of beginning.

#### Parcel 2 (Fruitland Park Lake Ella LLC)

A portion of the northwest ¼ of the northeast ¼ of the northeast ¼ of section 33, township 18, south, range 24 east, Lake County, Florida, being more particularly described as follows:

Commence at the north ¼ corner of said section 33; run thence S89° 51'42"E along the north line of the NE ¼ of said section 33, a distance of 1327.14 feet for a point of beginning; thence continue S89° 51'42" E along the north line of the northwest ¼ of the northeast ¼ of the northeast ¼ of said section 33 a distance of 375.60 feet to the west right-of-way line of US Highway 27/441 as shown on Florida Department of Transportation right of way map F.P. No. 238395-4, section 11040; thence S02° 14'34"W along said west right-of-way line a distance of 424.28 feet; thence N89° 51'34"W a distance of 285.97 feet; thence N00° 16'00"E a distance of 305.00 feet; thence N89° 45'01"W a distance of 75.00 feet to the west line of the NW ¼ of the NE ¼ of the NE ¼ of said section 33; thence N00° 16'00" E along said west line a distance of 118.84 feet to the point of beginning.

#### **Section 2.** Recording of Notice.

The Community Development Director is directed to record a certified copy of the Notice of Subdivision of Property, <u>a copy of which is attached hereto</u>, in the public records of Lake County, Florida, and provide a copy to the Lake County Property Appraiser.

### **Section 3. Effective Date.**

This resolution shall becom	e effective imme	ediately upo	n its passage.	
PASSED AND RESOLV Commission of the City of			, 202	2, by the City
SEAL			SION OF THE C RK, FLORIDA	CITY OF
	CHRI	S CHESHIR	RE, MAYOR	
ATTEST:				
ESTHER COULSON, CIT	Y CLERK			
Mayor Cheshire Vice Mayor Gunter Commissioner Bell Commissioner DeGrave Commissioner Mobilian Approved as to form:	(Yes), _ (Yes), _ (Yes), _	(No), (No), (No),	(Abstained), (Abstained), (Abstained), (Abstained), (Abstained),	(Absent) (Absent) (Absent)
Anita Geraci-Carver, City A	Attorney			

#### NOTICE OF SUBDIVISION OF PROPERTY TO BE ATTACHED

Record and return to: City of Fruitland Park Community Development Department 506 W Berckman St. Fruitland Park, FL 34731

#### NOTICE OF SUBDIVISION OF PROPERTY

Owner(s): Fruitland Lake Ella LLC

Levy A. Wong

13362 SW 128 Street Miami, FL 33186

The City of Fruitland Park, a municipal corporation of the State of Florida, hereby grants subdivision approval for a Lot Split pursuant to Sec. 157.050 of the City Land Development Code. The following described property (Parent Parcel):

**LEGAL DESCRIPTION PARENT PARCEL:** That part of the Northwest ½ of the Northeast ¼ of the Northeast ¼ of Section 22, Township 18 South, Range 24 East, Lake County, Florida lying west of the highway, less and except railroad right-of-way.

Together with that portion of the lands described in that final judgment quieting title recorded in Official Records Book 3578, Page 2451 of the Public Records of Lake County, Florida, lying within the Northwest ¼ of the Northeast ¼ of the Northeast ¼ of the Northeast ¼ of Section 22, Township 18 South, Range 24, East, Lake County, Florida, lying West of the highway.

#### Parcel Alternate Key No. 2748770

Is subdivided to be:

#### <u>Parcel 1</u> (7-Eleven Site)

A portion of the northwest ½ of the northeast ¼ of the northeast ¼ of section 33, township 18, range 24 east, Lake County, Florida, being more particularly described as follows:

Commence at the north ¼ corner of said section 33; run thence S89° 51'42" E along the north line of the NE ¼ of said section 33, a distance of 1327.14 feet to the west line of the N/W ¼ of the NE ¼ of the NE ¼ of said section 33; thence S00°16'00"W, along said west line, a distance of 50.00 feet for a point of beginning; thence S89°51'42"E a distance of 353.22 feet; thence S44°44'13"E a distance of 28.23 feet to the west right-of-way line of U.S. Highway 27/441 as shown on Florida Department of Transportation right-of-way map, F.P. NO. 238395-4, section 10040; thence S02°14'34"W, along said west right-of-way line, a distance of 354.23 feet; thence N89°51'34"W a distance of 285.97' feet; thence N00°16'00"E a distance of 305.00 feet; thence N89°45'01"W a distance of 75.00 feet to said west line of the NW ¼ of the NE ¼ of section 33; thence N00°16'00"E, along said west line, a distance of 68.84 feet to the point of beginning.

#### Parcel 2 (Fruitland Park Lake Ella LLC)

City Attorney

A portion of the northwest ¼ of the northeast ¼ of the northeast ¼ of section 33, township 18, south, range 24 east, Lake County, Florida, being more particularly described as follows:

Commence at the north ¼ corner of said section 33; run thence S89° 51'42"E along the north line of the NE ¼ of said section 33, a distance of 1327.14 feet for a point of beginning; thence continue S89° 51'42" E along the north line of the northwest ¼ of the northeast ¼ of the northeast ¼ of said section 33 a distance of 375.60 feet to the west right-of-way line of US Highway 27/441 as shown on Florida Department of Transportation right of way map F.P. No. 238395-4, section 11040; thence S02° 14'34"W along said west right-of-way line a distance of 424.28 feet; thence N89° 51'34"W a distance of 285.97 feet; thence N00° 16'00"E a distance of 305.00 feet; thence N89° 45'01"W a distance of 75.00 feet to the west line of the NW ¼ of the NE ¼ of the point of beginning.

also depicted in Exhibit "A". CITY OF FRUITLAND PARK, FLORIDA Chris Cheshire, Mayor State of Florida County of Lake The foregoing instrument was acknowledged before me by means of [X] physical presence or [ ] , 2022, by Chris Cheshire, Mayor of the City online notarization, this day of of Fruitland Park, on behalf of the municipal corporation, who is [X] personally known to me or [ ] produced \_\_\_\_\_ as identification. Notary Public ATTEST: Esther Coulson, City Clerk Approved as to Form: Anita Geraci-Carver

### **EXHIBIT A**

Boundary Survey/Sketch of Description describing and depicting parent parcel and two resulting parcels

INSTRUMENT #2021156219
OR BK 5834 PG 825 - 830 (6 PGS)
DATE: 11/10/2021 8:43:53 AM
GARY J. COONEY, CLERK OF THE CIRCUIT COURT
AND COMPTROLLER, LAKE COUNTY, FLORIDA
RECORDING FEES \$52.50

#### **RESOLUTION 2021-045**

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF FRUITLAND PARK, FLORIDA, GRANTING MAJOR SITE PLAN APPROVAL WITH CONDITIONS TO ALLOW FOR CONSTRUCTION OF A SEVEN-ELEVEN; PROVIDING FOR CONDITIONS; AUTHORIZING THE CITY MANAGER TO ISSUE A NOTICE OF SITE PLAN APPROVAL UPON COMPLETION OF ALL CONDITIONS; AND PROVIDING FOR AN EFFECTIVE DATE.

**WHEREAS,** Fruitland Park Ella, LLC and R.K.M. Development Corp. has filed an application for Major Site Plan Approval to allow for construction of a new Seven-Eleven building on real property located at xxxx US Hwy 27/441, Fruitland Park; and

**WHEREAS**, the Planning and Zoning Board of the City of Fruitland Park has considered the application in accordance with the Land Development Regulations for Major Site Plan Approval in Chapter 160 of the Land Development Regulations; and

WHEREAS, the City Commission of the City of Fruitland Park has considered the application in accordance with the Land Development Regulations for Major Site Plan Approval in Chapter 160 of the Land Development Regulations, subject to conditions;

NOW THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF FRUITLAND PARK, LAKE COUNTY, FLORIDA, AS FOLLOWS:

#### Section 1. Granting of Major Site Plan Approval.

The application filed by Fruitland Park Ella, LLC and R.K.M. Development Corp. (hereafter referred to as "Applicant"), to allow for construction of a new Seven-Eleven building on real property located at xxxx US Hwy 27/441, Fruitland Park is hereby GRANTED, with conditions, for the following described property:

Alt. Key Numbers: 274770

Parcel Id. Numbers: 33-18-24-0001-000-00400 LEGAL DESCRIPTION: See attached Exhibit A.

#### Section 2. Conditions of Approval.

- Prior to the issuance of a building permit, the Applicant shall resolve, to the satisfaction of the City Manager or designee, the following matters:
  - (a) Applicant must obtain a driveway permit from FDOT for connection of the Property to US Hwy 27/441.
  - (b) Applicant must dedicate and convey by right-of-way deed to Lake County right-of-way for Lake Ella Road. Applicant must prepare and provide to Lake County the legal description and sketch of description of the right-of-way as determined by Lake County, along with a copy of the Property boundary survey and title report.

- (c) Applicant must cooperate with FDOT and Lake County for the traffic signal modification at the intersection of US Hwy 27/441 and Lake Ella Road, and execute any required agreements relating to same.
- (2) Site plan approval shall terminate and become null and void automatically without notice if construction has not commenced within twelve (12) months from the date of this conditioned approval.
- (3) The Site Plan is attached hereto and incorporated herein.
- (4) Upon compliance with the conditions set forth above, the City Manager is authorized to issue and record a Notice of Site Plan Approval in the public records of Lake County, Florida.

#### Section 3. Effective Date.

This resolution shall become effective immediately upon its passage.

PASSED and ADOPTED at a regular meeting of the City Commission of the City of Fruitland Park, Lake County, Florida this 28<sup>th</sup> day of October 2021.

rank, Bake County, 1 forfat till 5 20	day of October 2021.
SEAL  ATTEST:  ESTHER COULSON, CITY CLER	CITY COMMISSION OF THE CITY OF FRUITLAND PARK, FLORIDA  CHRIS CHESHIRE, MAYOR  K, MMC
Commissioner Bell (Yes)	(Absent) (No), (Abstained), (Absent) (No), (Abstained), (Absent) (No), (Abstained), (Absent)

Approved as to form:

Anita Geraci-Carver, City Attorney

#### Legal Description:

THAT PART OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 33, TOWNSHIP 18 SOUTH, RANGE 24 EAST, LAKE COUNTY, FLORIDA LYING WEST OF THE HIGHWAY, LESS AND EXCEPT RAILROAD RIGHT-OF-WAY.

TOGETHER WITH THAT PORTION OF THE LANDS DESCRIBED IN THAT FINAL JUDGEMENT QUIETING TITLE RECORDED IN OFFICIAL RECORDS BOOK 3578, PAGE 2451 OF THE PUBLIC RECORDS OF LAKE COUNTY, FLORIDA, LYING WITHIN THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 33, TOWNSHIP 18 SOUTH, RANGE 24 EAST, LAKE COUNTY, FLORIDA, LYING WEST OF THE HIGHWAY.

Record and return to City of Fruitland Park 506 W Berckman St Fruitland Park, FL 34731

#### NOTICE OF A MAJOR SITE PLAN APPROVAL

TO: Fruitland Lake Ella, LLC

133602 SW 128 Street Miami FL 33186

and

R.K.M. Development Corp. 147 Second Avenue South, Suite 400, St. Petersburg, FL 33701

You are hereby notified that a major site plan approval has been given by the City of Fruitland Park Commission at its October 28, 2021 regular meeting with conditions to be completed as outlined below in the adopted Resolution 2021-045, to allow for construction of a new Seven-Eleven building on real property located west of U.S. Highway 441/27 and Eagles Nest Road in Fruitland Park, more particularly described:

#### **LEGAL DESCRIPTION:**

THAT PART OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 33, TOWNSHIP 18 SOUTH, RANGE 24 EAST, LAKE COUNTY, FLORIDA LYING WEST OF THE HIGHWAY, LESS AND EXCEPT RAILROAD RIGHT-OF-WAY.

TOGETHER WITH THAT PORTION OF THE LANDS DESCRIBED IN THAT FINAL JUDGEMENT QUIETING TITLE RECORDED IN OFFICIAL RECORDS BOOK 3578, PAGE 2451 OF THE PUBLIC RECORDS OF LAKE COUNTY, FLORIDA, LYING WITHIN THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 33, TOWNSHIP 18 SOUTH, RANGE 24 EAST, LAKE COUNTY, FLORIDA, LYING WEST OF THE HIGHWAY.

#### **Conditions of Approval.**

- (1) Prior to the issuance of a building permit, the applicant shall resolve, to the satisfaction of the city manager or designee, the following matters:
  - (a) Applicant must obtain a driveway permit from the State of Florida Department of Transportation (FDOT) for connection of the property to US Hwy 27/441.
  - (b) Applicant must dedicate and convey by right-of-way (ROW) deed to Lake County ROW for Lake Ella Road. Applicant must prepare and provide to the county the legal description and sketch of description of the ROW as determined by the county, along with a copy of the property boundary survey and title report.

- (c) Applicant must cooperate with FDOT and the county for the traffic signal modification at the intersection of US Hwy 27/441 and Lake Ella Road and execute any required agreements relating to same.
- (2) Site plan approval shall terminate and become null and void automatically without notice if construction has not commenced within twelve (12) months from the date of this conditioned approval.
- (3) The Site Plan is attached hereto and incorporated herein.

  The above-referenced property may not be subdivided or split without the express written approval of the City of Fruitland Park Commission.
- (4) Upon compliance with the conditions set forth above, the city manager is authorized to issue and record a notice of site plan approval in the public records of Lake County, Florida.
- (5) This conditioned approval may also be revoked by the city manager, at any time, if the above conditions are not followed and met by the applicant.

#### **APPELLATE RIGHTS**

In accordance with s.163.3215, *Florida Statutes*, you are hereby advised that you have thirty (30) days to appeal the decision of the city manager to the Circuit Court in Lake County, Florida. The time for appeal shall begin from the date the city manager renders its written decision by signing this notice of major site plan approval.

Gary La Venia, City Manager

City of Fruitland Park

Dated: November 9, 2021

Attest:

Esther B. Coulson, City Clerk

City of Fruitland Park

