

*Valencia Water  
Control District*

*Agenda*

*March 12, 2024*

**VALENCIA WATER CONTROL DISTRICT  
NOTICE OF MEETING  
OF  
BOARD OF SUPERVISORS  
AND  
BUDGET REVIEW COMMITTEE**

Please be advised that the Meetings of the Board of Supervisors and Budget Review Committee of Valencia Water Control District will be held on Tuesday, March 12, 2024, at 1:00 P.M. in the **Lake Ridge Village Clubhouse, 10630 Larissa Street (Directions listed below)**. Attached is an Agenda for the meetings.

  
\_\_\_\_\_  
George S. Flint, District Director

**DIRECTIONS TO MEETING:**

From Orlando go West on I-4 to the Beach Line Expressway (528); go east past International Drive to Orangewood Blvd.; Go South on Orangewood Blvd., through 4-way stop at Gateway, turn left on Larissa Street. Proceed to Lake Ridge Village Clubhouse on right.

**DISTRIBUTION**

Roy Miller; William Ingle; Debra Donton; Brian Andreleczyk; Amanda Whitney; David E. Mahler; Stephen F. Broome; Green Briar Village Clubhouse; Lake Ridge Village Clubhouse; Lime Tree Village Clubhouse; Montpelier Village Clubhouse; Parkview Pointe Village Clubhouse; Somerset Village Clubhouse; Deer Creek Village Clubhouse; Wingate Club; Lyle Spector, WHOA; and Tom Johnson, Orangewood HOA; Waterview HOA; Windsor Walk.

*"Persons are advised that if they decide to appeal any decisions made at these meetings/hearings, they will need a record of the proceedings and for such purpose they may need to ensure that a verbatim record of the proceedings is made which includes the testimony and evidence upon which the appeal is to be based, per section 298.0105, Florida Statutes."*

*"In accordance with the Americans with Disabilities Act, persons with disabilities needing a special accommodation should contact Valencia Water Control District at (407) 841-5524 x 101, not later than forty-eight hours prior to the meeting."*

**BOARD OF SUPERVISORS  
MEETING**

# AGENDA

# AGENDA

March 12, 2024

VALENCIA WATER CONTROL DISTRICT  
BOARD OF SUPERVISORS MEETING  
1 P.M.

LAKE RIDGE VILLAGE CLUBHOUSE  
10630 LARISSA STREET  
WILLIAMSBURG, ORLANDO, FLORIDA 32821

## Item

1. Call Meeting to Order
2. Public Comment Period
3. Approval of January 9, 2024 Monthly Meeting Minutes
4. General Fund Financial Reports
5. Engineer's Report
  - A. Approval of Permit #0531 – Orangewood Blvd. Horizontal Directional Drill
  - B. Approval of Permit #0532 – 16023 S. John Young Parkway Commercial Building
6. Attorney's Report
7. Director's Report
  - A. Customer Call Log
  - B. CDD Ethics Training Requirement
8. Other Business
9. Adjournment

# MINUTES

**MINUTES OF THE MONTHLY MEETING  
OF THE BOARD OF SUPERVISORS  
OF VALENCIA WATER CONTROL DISTRICT**

**January 9, 2024**

The monthly meeting of the Board of Supervisors of **VALENCIA WATER CONTROL DISTRICT** was held at 1:00 P.M. on Tuesday, January 9, 2024, at the Lake Ridge Village Clubhouse, 10630 Larissa Street, Orlando, Florida. Physically present were Supervisors Debra Donton, Roy Miller, and Brian Andreleczyk. Also, in attendance were the following: George Flint, District Director, Stephen Broome, District Counsel; David Mahler, District Engineer; Stacie Vanderbilt, District Administrative Assistant; Dan Brown, Sthern Environmental; and two members of the public.

**ITEM #1**

**Call Meeting to Order**

Mr. Flint called the meeting to order at 1:00 P.M. A quorum of three Board members were present.

**ITEM #2**

**Public Comment Period**

There being none,

**ITEM #3**

**Approval of November 14, 2023 Annual Meeting Minutes**

Mr. Flint stated the next item was the minutes from the November 14, 2023 annual meeting. He asked if there were any corrections, deletions, or additions.

On MOTION by Ms. Donton, seconded by Mr. Andreleczyk with all in favor the Minutes from the November 14, 2023 Monthly Meeting were approved, as presented.
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**ITEM #4**

**General Fund Financial Reports**

Mr. Flint updated the board interest amounts and noted that the accounts are in good standing and generating interest. They are on course to collect assessments, it is still early for tax bills being due and prorations are in line with the work being done and are good from a cash flow perspective.

**ITEM #5**

**Engineer's Report**

**A. Consideration of Permit #0530 – Aquatica Parking Lot**

Mr. Mahler stated SeaWorld is looking to expand their parking lot to an undeveloped area and it will not significantly affect the district. He recommended approval.

Mr. Roy Miller asked how many parking spaces will that create?

Mr. Mahler stated he was not sure offhand.

On MOTION by Mr. Miller, seconded by Mrs. Donton, with all in favor, Permit #0530 – Aquatica Parking Lot, was approved.
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**B. Presentation of Sea World C-5 Canal Reconfiguration Study**

Mr. Mahler explained the options listed in the study to the Board. There were three options and option #2 was the least liked by staff. The biggest thing he noticed was to reduce their friction factor (i.e. grass, debris) that would slow the flow of water.

Option #1: Better.

Option #2: Not great (not liked by staff).

Option #3: Okay, but not great and needs the width to be corrected to reduce friction factor.

Mr. Flint I asked what is the reasoning for using the incorrect friction factor.

Mr. Mahler reply, not sure, but they need to account for it instead of narrowing of the canal. It's not a huge difference, but needs to be looked at.

Mr. Andrearczyk asked so it should be an easy modification to make? I can't speak for the design team, but I think they were leaning towards option one. What does the Board need to approve today?

Mr. Flint stated we need to know what SeaWorld is asking for.

Discussion ensued on option #3 between the Board and Mr. Mahler. There is still a long way to go, engineering, wise, to make any design actually work.

Mr. Miller stated we all agree that option #2 is out of the question. Option #3 would require the most work and change to the canal. Option #1 seems to be the best for the District because it slightly changes the flow of the canal but not by much.

Mr. Flint stated the Board may want to consider reporting back that you're amenable to options #1 or #3 with the inclusion of an access road to option #3.

On MOTION by Mr. Miller, seconded by Mrs. Donton, with all in favor, the Board is amenable to Options #1 and #3 upon the condition that SeaWorld maintains all areas and includes necessary access to the District for maintenance, provided other revisions to study with the District Engineer’s comments included, but limited to access roads and flow factors, was approved.

**ITEM #6**

**Attorney’s Report**

Mr. Broome had nothing new to report to the Board.

**ITEM #7**

**Director’s Report**

**A. Customer Call Log**

Mr. Flint stated there was one call about proposed development that was not in the District boundaries and we directed the resident to Orange County.

**B. Consideration of Proposals to Repair S-501**

Mr. Flint stated the Engineer will go over this, but the structure was damaged by a storm event, so the Engineer got bids from vendors to repair.

Mr. Mahler explained the proposals and bid results to the Board. Dan Brown with Sthern Environmental was the lowest bid and could get the work done efficiently.

Mr. Andrelczyk asked when would the work take place? The rollercoaster parts will be moved in the next month or so.

Mr. Brown responded they are targeting April.

Mr. Andrelczyk stated that will work.

On MOTION by Mr. Andrelczyk, seconded by Mrs. Donton, with all in favor, the proposal with Sthern Environmental for S-501 repair, was approved.

**C. Consideration of Helicon Proposal for Chemical Grout – ADDED**

Mr. Mahler explained the need for the extra work for this company, to solidify the soil below the repaired structure, so that there is not another washout. It’s specific soil stabilization that only this company uses. He explained how they inject special chemicals in the soil to seal them along to the base of the concrete structures. This keeps water from seeping through the dirt.

On MOTION by Mrs. Donton, seconded by Mr. Andrelczyk, with all in favor, the proposal with Helicon for Chemical Grout, was approved.

**ITEM #8**

**Other Business**

Mr. Mahler stated he was contacted by a contractor that did work on the 528 bridge, so work will commence there in the near future.

*At this time the public comment period was re-opened.*

Donna Finkelstein commented that people are parking along the canal and fishing at the bond behind the homes in Greenbriar. She stated we need new signs because they are not facing the water, they are facing the houses.

Mr. Flint stated the signs are at the access points, not in between each house. There are pictures as well as rules on them.

Mrs. Finkelstein stated they are migrants they can't read them, and Valencia is spelled wrong.

Mr. Flint responded we will get with the vendor on the signage.

Discussion ensued on where the access points are, and making sure the signs there are visible. They advise residents to continue to call the Sheriff to enforce the signs because hiring off duty security is too expensive.

Mr. Finkelstein stated Donna shouldn't have to confront them and it's dangerous, can we call 911 instead of the Sheriff's office?

Mrs. Finkelstein added that the Sheriff's don't do anything.

Mr. Flint stated we don't recommend confronting the trespassers and instead let the sheriff deputies do their jobs.

Mr. Miller stated the District will check the signs and make sure they are there and spelled right.

**ITEM #9**

**Adjournment**

On MOTION by Mrs. Donton, seconded by Mr. Andrearczyk, with all in favor the meeting was adjourned at 1:50 pm.

\_\_\_\_\_  
Stephen F. Broome, Secretary

\_\_\_\_\_  
William Von Ingle

\_\_\_\_\_  
Amanda Whitney

\_\_\_\_\_  
Debra Donton

\_\_\_\_\_  
Roy Miller

\_\_\_\_\_  
Brian Andrearczyk

# SECTION IV

***Valencia***  
***Water Control District***

***Unaudited Financial Reporting***  
***February 29, 2024***



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1 Balance Sheet

2-3 General Fund Income Statement

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5 Month to Month

6 Assessment Receipt Schedule

**Valencia**  
**Water Control District**  
**Balance Sheet**  
**February 29, 2024**

	<i>General Fund</i>	<i>Capital Reserve Fund</i>	<i>Totals Governmental Funds</i>
<b>Assets:</b>			
<i>Current Assets</i>			
Cash - Truist Bank	\$ 149,751	\$ 233,750	\$ 383,501
Petty Cash	\$ 100	\$ -	\$ 100
Investment:			
State Board of Administration	\$ 42,797	\$ 1,055,152	\$ 1,097,949
<b>Total Current Assets</b>	<b>\$ 192,649</b>	<b>\$ 1,288,902</b>	<b>\$ 1,481,550</b>
<i>Fixed Assets</i>			
Land	\$ 700,120	\$ -	\$ 700,120
Structures	\$ 672,531	\$ -	\$ 672,531
Canals	\$ 2,888,690	\$ -	\$ 2,888,690
Ponds	\$ 1,245,537	\$ -	\$ 1,245,537
Equipment & Office Furniture	\$ 6,703	\$ -	\$ 6,703
Accumulated Depreciation	\$ (4,789,183)	\$ -	\$ (4,789,183)
<b>Total Fixed Assets</b>	<b>\$ 724,398</b>	<b>\$ -</b>	<b>\$ 724,398</b>
<b>Total Assets</b>	<b>\$ 917,047</b>	<b>\$ 1,288,902</b>	<b>\$ 2,205,948</b>
<b>Liabilities:</b>			
Accounts Payable	\$ -	\$ -	\$ -
<b>Total Liabilities</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Fund Balances:</b>			
Unassigned	\$ 184,128	\$ 1,288,902	\$ 1,473,029
Net Assets Capitalized	\$ 732,919	\$ -	\$ 732,919
<b>Total Fund Balances</b>	<b>\$ 917,047</b>	<b>\$ 1,288,902</b>	<b>\$ 2,205,948</b>
<b>Total Liabilities &amp; Fund Equity</b>	<b>\$ 917,047</b>	<b>\$ 1,288,902</b>	<b>\$ 2,205,948</b>

# Valencia

## Water Control District

### General Fund

#### Statement of Revenues, Expenditures, and Changes in Fund Balance For The Period Ending February 29, 2024

	Adopted	Prorated Budget	Actual	
	Budget	Thru 02/29/24	Thru 02/29/24	Variance
<b>Revenues:</b>				
Assessments - Tax Roll	\$ 552,179	\$ 367,810	\$ 367,810	\$ -
Interest	\$ 2,000	\$ 833	\$ 991	\$ 158
<b>Total Revenues</b>	<b>\$ 554,179</b>	<b>\$ 368,643</b>	<b>\$ 368,801</b>	<b>\$ 158</b>
<b>Expenditures:</b>				
<b>Administrative:</b>				
Supervisor Fees	\$ 2,500	\$ 1,042	\$ 300	\$ 742
Engineering Fees	\$ 37,200	\$ 15,500	\$ 10,390	\$ 5,110
Attorney Fees	\$ 12,000	\$ 5,000	\$ 5,000	\$ -
Annual Audit	\$ 5,200	\$ -	\$ -	\$ -
Assessment Roll Certification	\$ 5,000	\$ 5,000	\$ 5,000	\$ -
Management Fees	\$ 53,280	\$ 22,200	\$ 22,200	\$ -
Information Technology	\$ 1,800	\$ 750	\$ 750	\$ -
Website Maintenance	\$ 1,200	\$ 500	\$ 500	\$ -
Insurance	\$ 14,400	\$ 14,400	\$ 13,614	\$ 786
Report Preparation - NPDES	\$ 15,000	\$ 6,250	\$ 533	\$ 5,718
Office Lease/Storage	\$ 3,000	\$ 1,250	\$ 1,080	\$ 170
Printing & Binding	\$ 500	\$ 208	\$ 154	\$ 54
Postage	\$ 600	\$ 250	\$ 248	\$ 2
Legal Advertising	\$ 2,500	\$ 1,042	\$ -	\$ 1,042
Bank Fees	\$ 600	\$ 250	\$ 195	\$ 55
Other Current Charges	\$ 400	\$ 167	\$ -	\$ 167
Office Supplies	\$ 350	\$ 146	\$ 37	\$ 109
Election Fees	\$ 4,250	\$ -	\$ -	\$ -
Meeting Rental Fee	\$ 500	\$ 208	\$ 100	\$ 108
Property Appraiser Fee	\$ 5,417	\$ -	\$ -	\$ -
Dues, Licenses & Subscriptions	\$ 1,675	\$ 698	\$ 175	\$ 523
<b>Total Administrative:</b>	<b>\$ 167,372</b>	<b>\$ 74,860</b>	<b>\$ 60,276</b>	<b>\$ 14,584</b>
<b>Operations &amp; Maintenance</b>				
Contracts:				
Aquatic Weed Control	\$ 40,000	\$ 16,667	\$ 11,610	\$ 5,056
Mowing	\$ 98,289	\$ 40,954	\$ 20,483	\$ 20,471
Water Quality Monitoring	\$ 19,746	\$ 8,228	\$ 4,937	\$ 3,291
Repairs & Maintenance:				
Canal & Retention Pond Maintenance	\$ 40,000	\$ 16,667	\$ 1,000	\$ 15,667
Security Gates & Signs	\$ 750	\$ 313	\$ -	\$ 313
NPDES Inspection & Fees	\$ 6,000	\$ 2,500	\$ 1,875	\$ 625
Operating Supplies	\$ 500	\$ 208	\$ -	\$ 208
Contingency	\$ 2,500	\$ 1,042	\$ -	\$ 1,042
<b>Total Operations &amp; Maintenance:</b>	<b>\$ 207,785</b>	<b>\$ 86,577</b>	<b>\$ 39,904</b>	<b>\$ 46,673</b>

# Valencia

## Water Control District

### General Fund

#### Statement of Revenues, Expenditures, and Changes in Fund Balance For The Period Ending February 29, 2024

	Adopted	Prorated Budget	Actual	
	Budget	Thru 02/29/24	Thru 02/29/24	Variance
<b><i>Capital Improvements</i></b>				
Transfer Out - Capital Reserve	\$ 245,392	\$ 245,392	\$ 245,392	\$ -
<b>Total Reserves</b>	<b>\$ 245,392</b>	<b>\$ 245,392</b>	<b>\$ 245,392</b>	<b>\$ -</b>
<b>Total Expenditures</b>	<b>\$ 620,549</b>	<b>\$ 406,830</b>	<b>\$ 345,573</b>	<b>\$ 61,257</b>
<b>Excess Revenues (Expenditures)</b>	<b>\$ (66,370)</b>		<b>\$ 23,228</b>	
<b>Fund Balance - Beginning</b>	<b>\$ 66,370</b>		<b>\$ 160,900</b>	
<b>Fund Balance - Ending</b>	<b>\$ -</b>		<b>\$ 184,128</b>	

# Valencia

## Water Control District

### Capital Reserve

#### Statement of Revenues, Expenditures, and Changes in Fund Balance For The Period Ending February 29, 2024

	Adopted Budget	Prorated Budget Thru 02/29/24	Actual Thru 02/29/24	Variance
<b>Revenues:</b>				
Transfer In	\$ 245,392	\$ 245,392	\$ 245,392	\$ -
Interest	\$ 35,000	\$ 14,583	\$ 18,863	\$ 4,280
<b>Total Revenues</b>	<b>\$ 280,392</b>	<b>\$ 259,975</b>	<b>\$ 264,255</b>	<b>\$ 4,280</b>
<b>Expenditures:</b>				
Contingency	\$ 600	\$ 250	\$ 192	\$ 58
Capital Outlay	\$ 119,181	\$ 49,659	\$ 42,918	\$ 6,741
<b>Total Expenditures</b>	<b>\$ 119,781</b>	<b>\$ 49,909</b>	<b>\$ 43,110</b>	<b>\$ 6,799</b>
<b>Excess Revenues (Expenditures)</b>	<b>\$ 160,611</b>	<b>\$ 210,067</b>	<b>\$ 221,145</b>	
<b>Fund Balance - Beginning</b>	<b>\$ 1,066,244</b>		<b>\$ 1,067,757</b>	
<b>Fund Balance - Ending</b>	<b>\$ 1,226,855</b>		<b>\$ 1,288,902</b>	

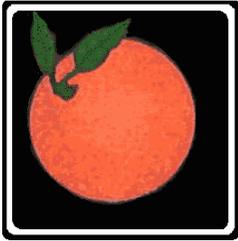
**Valencia**  
**Water Control District**  
**Month to Month**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Total
<b>Revenues:</b>													
Assessments - Tax Roll	\$ -	\$ 24,725	\$ 183,984	\$ 51,868	\$ 107,233	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 367,810
Interest	\$ 200	\$ 195	\$ 202	\$ 203	\$ 190	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 991
<b>Total Revenues</b>	<b>\$ 200</b>	<b>\$ 24,920</b>	<b>\$ 184,186</b>	<b>\$ 52,071</b>	<b>\$ 107,423</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 368,801</b>
<b>Expenditures:</b>													
<b>Administrative:</b>													
Supervisor Fees	\$ -	\$ 150	\$ -	\$ 150	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300
Engineering Fees	\$ 3,098	\$ 2,228	\$ 2,965	\$ 2,100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,390
Attorney Fees	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000
Annual Audit	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Assessment Roll Certification	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000
Management Fees	\$ 4,440	\$ 4,440	\$ 4,440	\$ 4,440	\$ 4,440	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22,200
Information Technology	\$ 150	\$ 150	\$ 150	\$ 150	\$ 150	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 750
Website Maintenance	\$ 100	\$ 100	\$ 100	\$ 100	\$ 100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 500
Insurance	\$ 13,614	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,614
Report Preparation - NPDES	\$ -	\$ 533	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 533
Office Lease/Storage	\$ 216	\$ 216	\$ 216	\$ 216	\$ 216	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,080
Printing & Binding	\$ -	\$ -	\$ 24	\$ -	\$ 131	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 154
Postage	\$ 4	\$ 4	\$ 165	\$ 32	\$ 44	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 248
Legal Advertising	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bank Fees	\$ 39	\$ 39	\$ 39	\$ 39	\$ 41	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 195
Other Current Charges	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Office Supplies	\$ 0	\$ 0	\$ 18	\$ 0	\$ 19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 37
Election Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Meeting Rental Fee	\$ -	\$ 50	\$ -	\$ 50	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100
Property Appraiser Fee	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Dues, Licenses & Subscriptions	\$ 175	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 175
<b>Total Administrative:</b>	<b>\$ 27,836</b>	<b>\$ 8,909</b>	<b>\$ 9,115</b>	<b>\$ 8,277</b>	<b>\$ 6,139</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 60,276</b>
<b>Operations &amp; Maintenance</b>													
Contracts:	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Aquatic Weed Control	\$ 2,322	\$ 2,322	\$ 2,322	\$ 2,322	\$ 2,322	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,610
Mowing	\$ 15,892	\$ 4,590	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 20,483
Water Quality Monitoring	\$ 1,646	\$ 1,646	\$ 1,646	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,937
Repairs & Maintenance:	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Canal & Retention Pond Maintenance	\$ 1,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000
Security Gates & Signs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
NPDES Inspection & Fees	\$ -	\$ -	\$ 1,875	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,875
Operating Supplies	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Contingency	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Field Operations:</b>	<b>\$ 20,860</b>	<b>\$ 8,558</b>	<b>\$ 5,843</b>	<b>\$ 2,322</b>	<b>\$ 2,322</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 39,904</b>
<b>Capital Improvements</b>													
Transfer Out - Capital Reserves	\$ -	\$ -	\$ -	\$ -	\$ 245,392	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 245,392
<b>Total Reserves</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 245,392</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 245,392</b>
<b>Total Expenditures</b>	<b>\$ 48,696</b>	<b>\$ 17,466</b>	<b>\$ 14,958</b>	<b>\$ 10,599</b>	<b>\$ 253,853</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 345,573</b>
<b>Excess Revenues (Expenditures)</b>	<b>\$ (48,496)</b>	<b>\$ 7,454</b>	<b>\$ 169,228</b>	<b>\$ 41,472</b>	<b>\$ (146,430)</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 23,228</b>



# SECTION V

# SECTION A



**VALENCIA WATER CONTROL DISTRICT**  
**219 E. LIVINGSTON STREET, ORLANDO, FL 32801**  
**PHONE: 407-841-5524 X 101 - FAX: 407-839-1526**

March 5, 2024

Orange County Utilities  
Attn: Davis S. Arms, P.E., Chief Engineer  
9150 Curry Ford Road  
Orlando, FL 32835

Subject: Permit #0531

Dear Mr. Arms:

Orange County Utilities is hereby granted a construction permit related to the Orangewood Boulevard Horizontal Directional Drill project. Approval is granted in accordance with approved plans and hydraulic calculations and the following **GENERAL AND SPECIFIC CONDITIONS:**

**GENERAL CONDITIONS:**

1. That the District or their agents may at any time make such inspections as they may deem necessary to ensure that the construction or work is performed in accordance with the conditions of this permit.
2. That the permittee will maintain the work authorized herein during construction and thereafter in good condition in accordance with the approved plans.
3. That the permittee shall comply promptly with any lawful regulations, conditions, or instructions affecting the structure or work authorized herein if and when issued by the U.S. Environmental Protection Agency, the South Florida Water Management District and the Florida Department of Environmental Protection and/or any county or city environmental protection agency having jurisdiction to abate or prevent water pollution, including thermal or radiation pollution. Such regulations, conditions, or instructions in effect or hereafter prescribed by the federal, state, county and city agencies have hereby made a condition of this permit.
4. It is understood and agreed that the rights and privileges herein set out are granted only to the extent of the District's right, title and interest in the land to be entered upon and used by the permittee, and the permittee will at all times, assume all risk and indemnify, defend and save harmless Valencia Water Control District from and against any and all loss, damage, cost or expense arising in any manner on account of the exercise or attempted exercises by the permittee of the aforesaid rights and privileges.

5. The permittee and/or their agents will use every measure to prevent the run-off of turbid water into the District's facilities including, but not limited to, the use of temporary ponds, silt barriers, chemical additives and temporary grassing during construction.
6. If discharge of water by permittee should at any time raise the level of pollutants in the District's water management facility to the point where the District is in violation of a statute or regulation, permittee will either: (a) immediately cease such discharge, (b) remove pollutants from the water before discharging into District facilities, and pay all costs which the District must incur in order to reduce pollution in the District's facilities to acceptable levels.
7. That all the provisions of this permit shall be binding on any assignee or successor in interest of the permittee.
8. That any modification, suspension or revocation of this permit shall not be the basis for a claim for damages against Valencia Water Control District.
9. The Valencia Water Control District agrees that the issuance of this permit allows the passage of water through their canals but in so doing does not assume any responsibility for damage to any persons or property.
10. That the engineer of record certify that the facilities as constructed comply with the submitted hydraulic calculations and approved drawings.
11. That the permittee agrees not to modify or alter the constructed facilities at any future time without the express consent of the District.
12. This permit is valid for 3 years from date of approval or runs concurrently with the SFWMD permit, if required, whichever expires first.
13. That this permit must be executed within 30 days of Board approval or must be brought back to the Board for reconsideration.

**END OF GENERAL CONDITIONS**

**SPECIFIC CONDITIONS**

1. That the Construction Plans, sheets G-100; G-101; G-102; G-103; G-104; U-100; U-101; U-102; U-103; U-104; D-100; D-101; D-102; D-103; D-104; X-100 titled Orangewood Boulevard Aerial Pipe Crossing Replacements as recommended for approval by the District Engineer on March 5, 2024, become part of this permit.

**Attest:**

\_\_\_\_\_

**Signature:** \_\_\_\_\_  
**Orange County Utilities**

**Title:** \_\_\_\_\_

**Attest:**

\_\_\_\_\_

**Granted by:**

**Valencia Water Control District**

**By:** \_\_\_\_\_  
**Roy Miller, President**

**On this \_\_\_\_ day of \_\_\_\_\_, 2024**



1117 East Robinson St.  
Orlando, FL 32801  
Phone: 407.425.0452  
Fax: 407.648.1036

March 5, 2024

Board of Directors  
Valencia Water Control District  
219 E. Livingston Street  
Orlando, Florida 32801

RE: Orangewood Boulevard – Horizontal Directional Drill  
VWCD Permit No. 531  
CPH Project No. 6816.07

Dear Honorable Board Members:

We have completed our review of the above referenced project submitted by Orange County Utilities (plans by Barnes, Ferland Associates). This project consists of relocating a 12-inch HDPE water main that runs along the western side of the southbound lane of Orangewood Boulevard, crossing the bridge adjacent to Canal C-1 and a 12-inch HDPE force main that runs along the Eastern side of the same bridge. Based on our review we have no objection to the Board approving this permit.

Sincerely,

**CPH, LLC**

A handwritten signature in blue ink, appearing to read 'D. Mahler', with a long horizontal line extending to the right.

David E. Mahler, P.E.  
District Engineer

Cc: Mr. David Arms, Orange County Utilities

Permit No. \_\_\_\_\_  
(Assigned by V.W.C.D.)

**PERMIT APPLICATION**  
**Valencia Water Control District**  
**c/o CPH, Inc.**  
**1117 E. Robinson Street**  
**Orlando, FL 32801**  
**VWCD Office: (407) 841-5524 X 101 CPH, Inc. (407) 425-0452**

- (1) PROPOSED USE: Install two (2) horizontal directional drills across VWCD Canal C-1 within the Orangewood Boulevard right-of-way.
- (2) LOCATION OF WORK: Block: \_\_\_\_\_ Lot: \_\_\_\_\_ Subdivision: \_\_\_\_\_  
or Section: 18 Township: 24 S Range: 29 E
- (3) DISTRICT WORKS INVOLVED: Install a 12" HDPE water main and a 12" HDPE force main under VWCD Canal C-1, both by horizontal directional drill. All work will occur within the Orange County owned Orangewood Boulevard right-of-way.
- (4) OWNER OF PROPOSED WORK OR STRUCTURE: Phone #: 407 254-9694  
Name: David S. Arms, PE Title: Orange County Utilities Chief Engineer  
Address: Orange County Utilities, 9150 Curry Ford Road, Orlando, FL 32825  
(Street) (City) (State) (Zip)
- (5) APPLICATION OTHER THAN OWNER: (if any) Phone #: 407 896-8608  
Name: Cynthia K. Malone, PE Serving as: Engineer of Record
- (6) Address: Barnes, Ferland and Associates, Inc., 1230 Hillcrest Street, Suite 100, Orlando, FL 32803  
(Street) (City) (State) (Zip)
- (7) AREA PROPOSED TO BE SERVED: Give legal description and size in acres. Attach legal description if necessary. If land is platted, indicate Block, Lot and Subdivision. Not Applicable
- (8) CONSTRUCTION SCHEDULE: The proposed work, if permitted, will begin within 180 Calendar days of permit approval and be completed within 365 calendar days thereafter.
- (9) This application, including sketches, drawings or plans and specifications attached contains a full and complete description of work proposed or use desired of the above described facilities of the District and for which permit is herewith applied. It shall be a part of any permit that may be issued. It is agreed that all work or the use of the District's facilities will be in accordance with the permit to be granted.

Submitted this 28<sup>th</sup> day of February 2024.

Signature of Property Owner (Officer of Corporation): \_\_\_\_\_

Print Name of Property Owner (Officer): David S. Arms, PE, Chief Engineer, Orange County Utilities



INDEX OF DRAWINGS		
SHT No	DWG No	DESCRIPTION
1	G-100	COVER
2	G-101	SIGNATURE SHEET AND INDEX OF DRAWINGS
3	G-102	LEGEND AND ABBREVIATIONS
4	G-103	GENERAL NOTES
5	G-104	SUMMARY OF QUANTITIES
6	V-100	TOPOGRAPHICAL SURVEY
7	V-101	TOPOGRAPHICAL SURVEY
8	U-100	KEY MAP, SOIL BORING AND TEST HOLE DATA
9	U-101	ORANGEWOOD BLVD PLAN
10	U-102	ORANGEWOOD BLVD WATER MAIN PROFILE
11	U-103	ORANGEWOOD BLVD FORCE MAIN PROFILE
12	U-104	ORANGEWOOD BLVD BRIDGE PIPE REMOVAL
13	D-100	CONSTRUCTION DETAILS
14	D-101	CONSTRUCTION DETAILS
15	D-102	CONSTRUCTION DETAILS
16	D-103	CONSTRUCTION DETAILS
17	D-104	CONSTRUCTION DETAILS
18	X-100	AS-BUILT ASSET ATTRIBUTE TABLES



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

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

CYNTHIA KNOX MALONE, PE No 58685  
 BARNES, FERLAND AND ASSOCIATES, INC.  
 1230 HILLCREST STREET, SUITE 100  
 ORLANDO, FL 32803  
 ENGINEERING REGISTRY No 6899

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NO. SHEET DESCRIPTION

- G-100 COVER
- G-101 SIGNATURE SHEET AND INDEX OF DRAWINGS
- G-102 LEGEND AND ABBREVIATIONS
- G-103 GENERAL NOTES
- G-104 SUMMARY OF QUANTITIES
- U-100 KEY MAP, SOIL BORING AND TEST HOLE DATA
- U-101 ORANGEWOOD BLVD PLAN
- U-102 ORANGEWOOD BLVD WATER MAIN PROFILE
- U-103 ORANGEWOOD BLVD FORCE MAIN PROFILE
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- D-103 CONSTRUCTION DETAILS
- D-104 CONSTRUCTION DETAILS
- X-100 AS-BUILT ASSET ATTRIBUTE TABLES

No.	REVISIONS	BY	DATE

THIS LINE REPRESENTS  
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 REPRODUCTION MAY HAVE  
 ALTERED DRAWING SCALE  
 SCALE: AS NOTED



ORANGE COUNTY UTILITIES  
 9150 CURRY FORD ROAD  
 ORLANDO, FLORIDA 32825



BARNES, FERLAND AND ASSOCIATES, INC.  
 1230 HILLCREST ST., STE 100  
 ORLANDO, FL 32803  
 PH: (407) 896-8608  
 ENGINEERING REGISTRY NO. 6899

ORANGEWOOD BLVD AERIAL PIPE CROSSING REPLACEMENTS

SIGNATURE SHEET AND INDEX OF DRAWINGS

DESIGN ENGINEER  
 CYNTHIA K. MALONE, P.E.  
 FLORIDA REGISTRATION No.  
 58685

PROJECT No.: 2020-27-18  
 PROJECT DATE: NOV 2023  
 DESIGNED BY: CKM  
 DRAWN BY: JAB  
 CHECKED BY: CKM  
 DRAWING FILE: SEE MARGIN

DRAWING No.  
**G-101**  
 SHEET  
 2 OF 17

**ABBREVIATIONS**

AC	ASBESTOS CEMENT, AIR CONDITIONER	GM	GAS MAIN	RCP	REINFORCED CONC PIPE
ADPT	ADAPTER	GPM	GALLONS PER MINUTE	RED	REDUCER
ALUM	ALUMINUM	GV	GATE VALVE	REINF	REINFORCED
APPROX	APPROXIMATELY	HDWL	HEADWALL	REQ	REQUIRED
ARV	AIR RELEASE VALVE ASSEM	HFCA	HARNESSED FLANGE COUPLING ADAPTER	RESTR	RESTRAINED
ASPH	ASPHALT	HT	HEIGHT	RPZ	REDUCED PRESS ZONE
ASSEM	ASSEMBLY	HP	HORSE POWER	RT	RIGHT
AUX	AUXILIARY	HP	HORSE POWER	RW	RECLAIMED WATER
BFO	BURIED FIBER OPTIC	HORIZ	HORIZONTAL	RW	RIGHT OF WAY
BFP	BACKFLOW PREVENTER	HWL	HIGH WATER LEVEL	RW	RIGHT OF WAY
BFV	BUTTERFLY VALVE	ID	INSIDE DIAMETER	SAN	SANITARY SEWER
BL	BASE LINE	IN	INCHES	SB	SOIL BORING
BLDG	BUILDING	IN	INCHES	SCH	SCHEDULE
BM	BENCHMARK	INV	INVERT	SD	STORM DRAIN
BO	BLOW OFF	IP	IRON PIPE	SECT	SECTION
BOT	BOTTOM	IR	IRON ROD	SF	SQUARE FEET
BV	BALL VALVE	JUNC	JUNCTION	SHT	SHEET
CB	CATCH BASIN	LAT	LATERAL	SLV	SLEEVE
C/C	CENTER LINE TO CENTER LINE	LF	LINEAR FEET	SPECS	SPECIFICATIONS
C&G	CURB AND GUTTER	LS	LIFT STATION	SQ	SQUARE
CIP	CAST IRON PIPE	LT	LEFT	SS	STAINLESS STEEL
CL	CENTER LINE	LWL	LOW WATER LEVEL	STA	STATION
CLF	CHAIN LINK FENCE	MAX	MAXIMUM	STD	STANDARD
CM	CONCRETE MONUMENT	MATL	MATERIAL	STL	STEEL
CMP	CORRUGATED METAL PIPE	MEG	MATCH EXISTING GRADE	SY	SQUARE YARDS
CO	CLEAN OUT	MES	MITERED END SECTION	SYS	SYSTEM
CONC	CONCRETE	MFR	MANUFACTURER	TCE	TEMP CONST EASE
CONN	CONNECT	MGD	MILLION GALLONS PER DAY	TEL	TELEPHONE
CONST	CONSTRUCT	MH	MANHOLE	TEMP	TEMPORARY
CONT	CONTINUATION	MIN	MINIMUM	TH	TEST HOLE
CORP	CORPORATION	MJ	MECHANICAL JOINT	THK	THICK
CV	CHECK VALVE	MOD	MODIFIED	TOB	TOP OF BANK
CY	CUBIC YARD	MOT	MAINTENANCE OF TRAFFIC	TS&V	TAPPING SLEEVE AND VALVE
DBL	DOUBLE	NG	NATURAL GROUND	TYP	TYPICAL
DET	DETAIL	NO	NOT IN CONTRACT	UG	UNDERGROUND
DIA	DIAMETER	NOM	NOMINAL	VCP	VITRIFIED CLAY PIPE
DIM	DIMENSION	NPT	NATIONAL PIPE THREAD	VERT	VERTICAL
DIP	DUCTILE IRON PIPE	NPW	NON-POTABLE WATER	VVH	VERIFIED VERT & HORIZ
DWG	DRAWING	NTS	NOT TO SCALE	w/	WITH
DWY	DRIVEWAY	OD	OUTSIDE DIAMETER	w/o	WITH OUT
ELEC	ELECTRIC	OHU	OVERHEAD UTILITY	WL	WATER LEVEL
EA	EACH	OIO	OUTSIDE TO OUTSIDE	WM	WATER MAIN
ELEV	ELEVATION	OPER	OPERATOR	WM	WATER METER
EOP	EDGE OF PAVEMENT	OPNG	OPENING	WP	WALL PIPE
ESMT	EASEMENT	PAVT	PAVEMENT	WRF	WATER RECLAIM FACILITY
EXIST	EXISTING	PB	PULL BOX	WS	WATER SERVICE
EXP JT	EXPANSION JOINT	PC	POINT OF CURVATURE	WWF	WELDED WIRE FABRIC
FDEP	FLA DEPT OF ENVIRON PROTECT	PE	PLAIN END		
FDOT	FLA DEPT OF TRANS	PG	PAGE		
FA	FLANGED ADAPTER	PI	POINT OF INTERSECTION		
FF	FINISH FLOOR	PH	PHASE		
FCA	FLANGED COUPLING ADAPTER	PL	PROPERTY LINE		
FHA	FIRE HYDRANT ASSEMBLY	POLY	POLYETHYLENE		
FIG	FIGURE	PP	POWER POLE		
FLG	FLANGE	PROP	PROPOSED		
FL	FLOW LINE	PS	PUMP STATION		
FM	FORCE MAIN	PSI	POUNDS PER SQUARE INCH		
FT	FEET	PT	POINT OF TANGENCY		
GA	GAUGE	PV	PLUG VALVE		
GAL	GALLON	PVC	POLYVINYL CHLORIDE PIPE		
GALV	GALVANIZED	QTY	QUANTITY		
GEN	GENERATOR	RAD PT	RADIUS POINT		
GSP	GALVANIZED STEEL PIPE	R	RADIUS		
		RJ	RESTRAINED JOINT		
		R/R	RAIL ROAD		

**LEGEND**

-----	RIGHT OF WAY LINE	---G---	EXISTING GAS
-----	LOT LINE	---IRR---	EXISTING IRRIGATION
-----	EASEMENT LINE	---OHU---	EXISTING OVER HEAD UTILITY
-----	EXISTING FENCE	---RWM---	EXISTING RECLAIMED WATER MAIN
---BTV---	EXISTING CABLE TV	---SAN---	EXISTING SANITARY SEWER
---BFO---	EXISTING FIBER OPTIC CABLE	---STS---	EXISTING STORM WATER PIPE
---BE---	EXISTING BURIED ELECTRIC	---BT---	EXISTING BURIED TELEPHONE
---FM---	EXISTING FORCE MAIN	---W---	EXISTING WATER MAIN
	REMOVE AND REPLACE EXISTING CONCRETE SIDEWALK/ CONCRETE DRIVEWAY		REMOVE AND REPLACE CURB AND GUTTER
	REMOVE AND REPLACE EXISTING ASPHALT SURFACE		MILL AND RESURFACE ASPHALT PAVEMENT
✕	EXISTING PIPE TO BE REMOVED		REMOVE AND REPLACE SIGNS
///	EXISTING PIPE TO BE ABANDONED IN PLACE (GROUT FILLED)		LIGHT POLE
	TAPPING SLEEVE AND VALVE		POWER POLE
	TEE		MAIL BOX (TYP)
	LINE STOP ASSEMBLY		TEST HOLE (TH-1)
	VALVE (TYP)		VERIFIED VERTICALLY & HORIZONTALLY (VVH 1)
	SLEEVE	#	UNKNOWN ELEVATION OF EXISTING UTILITY AS INDICATED ON PROFILE SHEETS.
	HDPE / DI ADAPTER		
]	CAP		
	REDUCER		
	AIR RELEASE VALVE ASSEMBLY		
	FIRE HYDRANT ASSEMBLY		

**TYPICAL EXISTING UTILITY DESIGNATION**

**NOTE:** THIS DRAWING WAS PREPARED IN CONFORMANCE WITH ASCE STANDARD CE/ASCE 38-02 "AMERICAN SOCIETY OF CIVIL ENGINEERS STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA"

**CI/ASCE 3802 SUBSURFACE UTILITY QUALITY LEVEL INDEX**

1. QUALITY LEVEL A (QLA): UTILITY INFORMATION WHICH HAS BEEN VISUALLY VERIFIED, SURVEY LOCATED (BOTH HORIZONTALLY AND VERTICALLY) AND ACCURATELY REDUCED ONTO THE DRAWINGS. THIS IS TYPICALLY SHOWN AS A HV VERIFICATION EXCAVATION HOLE.
2. QUALITY LEVEL B (QLB): UTILITY INFORMATION DERIVED BY MARKING THE APPROXIMATE SURFACE HORIZONTAL LOCATION OF UTILITY USING ELECTRONIC METHODS BY THE UTILITY OWNER. MARKINGS BY UTILITY OWNERS ARE ASSUMED TO BE LOCATED BY ELECTRONIC METHODS AND SEPARATE LOCATES WILL NOT BE PERFORMED BY THE ENGINEER. MARKING IS SUBSEQUENTLY FIELD SURVEY LOCATED AND ACCURATELY REDUCED ONTO THE DRAWINGS.
3. QUALITY LEVEL C (QLC): UTILITY INFORMATION OBTAINED AS BELOW FOR QUALITY LEVEL D, PLOTTED TO CORRELATE WITH SURFACE UTILITY FEATURES WHICH HAVE BEEN FIELD VERIFIED, SURVEY LOCATED AND ACCURATELY REDUCED ONTO THE DRAWINGS. INCLUDED IN THIS CATEGORY ARE AERIAL UTILITY INFORMATION AND UTILITY DEPICTIONS, WHICH IN THE PROFESSIONAL OPINION OF THE SUBSURFACE UTILITY ENGINEER, REPRESENT THE MOST PROBABLE APPROXIMATE HORIZONTAL LOCATION, TYPE AND / OR EXISTENCE OF A UTILITY.
4. QUALITY LEVEL D (QLD): UTILITY INFORMATION PLOTTED ON THE DRAWING BASED SOLELY ON RECORD INFORMATION, INDIVIDUAL RECOLLECTIONS OR THE EXISTENCE OF UTILITY SERVICE. IT SHALL BE NOTED THAT ALL INFORMATION SHOWN (OTHER THAN AT TEST HOLE LOCATIONS, SEE QLA ABOVE) WITH REFERENCE TO A UTILITIES SIZE, CAPACITY, MATERIAL COMPOSITION, CONDITION OR SERVICE STATUS SHALL BE CONSIDERED QLD EVEN THOUGH THE UTILITY MAY BE PLOTTED AND LABELED QLC OR QLB.

No.	REVISIONS	BY	DATE

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**ORANGE COUNTY UTILITIES**  
 9150 CURRY FORD ROAD  
 ORLANDO, FLORIDA 32825



BARNES, FERLAND AND ASSOCIATES, INC.  
 1230 HILLCREST ST., STE 100  
 ORLANDO, FL 32803  
 PH: (407) 896-8608  
 ENGINEERING REGISTRY NO. 6899

ORANGEWOOD BOULEVARD AERIAL PIPE CROSSING REPLACEMENTS

**LEGEND AND ABBREVIATIONS**

DESIGN ENGINEER  
 CYNTHIA K. MALONE, P.E.  
 FLORIDA REGISTRATION No. 58685

PROJECT No.: 2020-27-18  
 PROJECT DATE: NOV 2023  
 DESIGNED BY: CKM  
 DRAWN BY: JAB  
 CHECKED BY: CKM  
 DRAWING FILE: SEE MARGIN

DRAWING No.  
**G-102**  
 SHEET  
 3 OF 17

\*ALL WORK AND REQUIREMENTS FROM THE NOTES IN THIS PAGE SHALL BE A REQUIREMENT OF THE CONTRACT AND EXECUTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO ORANGE COUNTY.

**OCU STANDARD GENERAL NOTES**

1. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN PROXIMITY OF INCLUDING, BUT NOT LIMITED TO; WATER MAINS, WASTEWATER FORCE MAINS, GRAVITY MAINS, RECLAIMED WATER MAINS, ELECTRIC, GAS, CABLE TV, TELECOMMUNICATIONS, STORM WATER, FIBER OPTIC AND OTHER UNDERGROUND FACILITIES. MAIN LOCATIONS SHOWN ON PLANS MAY NOT BE EXACT. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING UTILITY LOCATIONS.
2. SHOULD A PIPE EMERGENCY OCCUR, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OCU DISPATCH OPERATOR (407-836-2777) AND THE OCU INSPECTOR.
3. THE CONTRACTOR SHALL NOTIFY THE OCU CONSTRUCTION INSPECTION SECTION, FIELD SERVICES DIVISION AT LEAST 10 CALENDAR DAYS PRIOR TO COMMENCEMENT OF THE CONSTRUCTION PROJECT BY CALLING (407) 254-9798.
4. THE CONTRACTOR SHALL NOTIFY THE OCU CONSTRUCTION INSPECTOR IN ACCORDANCE WITH TABLE 4110-1 "UTILITIES' SCHEDULE OF NOTIFICATIONS OF INSPECTIONS", ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL.
5. THE MATERIALS, PRODUCTS, AND CONSTRUCTION OF ALL UTILITIES CONNECTING TO THE OCU SYSTEM SHALL BE IN CONFORMANCE WITH THE STANDARDS, CONSTRUCTION SPECIFICATIONS, AND APPENDIX D IN THIS MANUAL.
6. ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO; WATER MAINS, FORCE MAINS, RECLAIMED WATER MAIN, SANITARY GRAVITY PIPES, STORM WATER PIPES, ELECTRIC, TELEPHONE, GAS, CABLE TV AND OTHER UTILITY FACILITIES WITHIN THE LIMITS OF THE PROJECT WILL BE SUPPORTED AND PROTECTED AGAINST DAMAGE DURING CONSTRUCTION.
7. THE CONTRACTOR SHALL ADJUST ALL EXISTING OCU MAINS AND FACILITIES IN CONFLICT WITH NEW GRADE, NEW OR ALTERED ROADWAYS, SIDEWALKS, DRIVEWAYS, CURBS, OR STORM WATER IMPROVEMENTS. OCU FACILITIES TO BE ADJUSTED INCLUDE, BUT ARE NOT LIMITED TO; PIPELINES, PUMP STATIONS, VALVE BOXES, AIR RELEASE VALVES, FIRE HYDRANTS, MANHOLE COVERS, AND METERS. ALL ADJUSTMENTS SHALL BE MADE TO CURRENT STANDARDS..
8. ONLY OCU PERSONNEL SHALL OPERATE OCU WATER, WASTEWATER, AND RECLAIMED WATER VALVES. THE CONTRACTOR IS RESPONSIBLE FOR OPERATING ANY NEWLY INSTALLED VALVE THAT HAS NOT BEEN CLEARED FOR USAGE BY FDEP AND OCU. THE CONTRACTOR SHALL COORDINATE VALVE OPERATION WITH THE OCU INSPECTOR. FOR OPERATION OF MAINS NOT OWNED BY OCU, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE APPROPRIATE UTILITY REPRESENTATIVE..
9. CONSTRUCTION ACTIVITIES SHALL NOT CAUSE INTERRUPTIONS IN WATER, WASTEWATER, OR RECLAIMED WATER SERVICE. THE CONTRACTOR SHALL COORDINATE PRE-APPROVED INTERRUPTIONS OF SERVICE WITH THE OCU INSPECTOR 7 WORKING DAYS IN ADVANCE AND WRITTEN NOTICE SHALL BE GIVEN TO AFFECTED CUSTOMERS AT LEAST 4 WORKING DAYS IN ADVANCE.
10. THE CONTRACTOR SHALL PROVIDE FOR BYPASSING AND/OR HAULING WASTEWATER DURING APPROVED INTERRUPTIONS OF WASTEWATER FLOWS AND CONNECTIONS. THE CONTRACTOR SHALL SUBMIT A BYPASS OR HAUL PLAN, REVIEWED AND APPROVED BY A PROFESSIONAL ENGINEER TO OCU DEVELOPMENT ENGINEERING AND TO THE INSPECTOR FOR APPROVAL PRIOR TO IMPLEMENTATION BY CONTRACTOR.
11. ALL VALVES INSTALLED AS PART OF THIS CONSTRUCTION PROJECT SHALL REMAIN CLOSED DURING CONSTRUCTION. KEEP VALVES ON ALL WET TAPS CLOSED UNTIL CLEARED BY FDEP. DO NOT CONNECT NEWLY CONSTRUCTED WATER MAINS TO ANY EXISTING WATER MAINS UNLESS CLEARED BY FDEP AND OCU.
12. THE CONTRACTOR SHALL PROVIDE A JUMPER ASSEMBLY WITH AN APPROVED BACKFLOW PREVENTER FOR MAKING TEMPORARY CONNECTIONS TO AN EXISTING POTABLE WATER SOURCE IN ORDER TO CHLORINATE AND FLUSH NEW WATER MAINS WITH POTABLE WATER. ANY TEMPORARY POTABLE WATER CONNECTIONS TO RECLAIMED WATER OR FORCE MAIN SHALL ALSO BE EQUIPPED WITH AN APPROVED BACKFLOW PREVENTER.
13. FOR PVC PIPE, NO JOINT DEFLECTION OR PIPE BENDING IS ALLOWED. ALIGNMENT CHANGE SHALL BE MADE ONLY WITH FITTINGS.
14. FOR DIP PIPE, LONG RADIUS CURVES, EITHER HORIZONTAL OR VERTICAL, MAY BE INSTALLED WITH STANDARD PIPE BY DEFLECTIONS AT THE JOINTS. MAXIMUM DEFLECTIONS AT PIPE JOINTS, FITTINGS AND LAYING RADIUS FOR THE VARIOUS PIPE LENGTHS SHALL NOT EXCEED 75 PERCENT OF THE PIPE MANUFACTURER'S RECOMMENDATION.
15. FOR APPROVED PVC OR HDPE PIPE USED IN A HORIZONTAL DIRECTIONAL DRILL INSTALLATION, THE CURVATURE AND/OR DEFLECTION SHALL NOT EXCEED THE PARAMETERS ESTABLISHED IN THIS MANUAL.
16. ALL DAMAGE TO ORANGE COUNTY INFRASTRUCTURE, PIPELINES, AND ASSETS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE WITH AN APPROVED METHOD BY THE COUNTY. IF THE REPAIR IS NOT PERFORMED IN A TIMELY MANNER, AS DETERMINED BY THE ORANGE COUNTY UTILITY INSPECTOR, ORANGE COUNTY MAY PERFORM REPAIRS AND THE CONTRACTOR WILL BE CHARGED FOR ALL EXPENSES ASSOCIATED WITH THE REPAIR.
17. THE CONTRACTOR SHALL BE LIABLE FOR ANY AND ALL SANITARY SEWER OVERFLOWS (SSO) ASSOCIATED WITH THE WORK, REGARDLESS OF FAULT. THE CONTRACTOR WILL BE ASSESSED PENALTIES FOR ANY AND EACH SSO AS SPECIFIED IN SECTION 3110, GENERAL CONSTRUCTION REQUIREMENTS, ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL.

**PROJECT GENERAL NOTES**

1. ALL UTILITIES FACILITIES CONSTRUCTION CONNECTING TO THE ORANGE COUNTY PUBLIC UTILITIES SYSTEM SHALL CONFORM TO THE ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL, AND BE ONE OF THE APPROVED PRODUCTS LISTED IN APPENDIX 'D' OF THE MANUAL.
2. COORDINATION AND COMMUNICATIONS WITH ORANGE COUNTY STAFF SHALL BE MADE THROUGH THE ORANGE COUNTY UTILITIES CONSTRUCTION DIVISION INSPECTOR.
3. IMMEDIATELY AT ONSET OF CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES CRITICAL TO COMPLETING THE PROJECT (INCLUDING WATER, SEWER, RECLAIMED WATER, POWER, TELEPHONE, GAS, FIBER OPTIC AND CABLE TV) AND SHALL EVALUATE POTENTIAL CONFLICTS IN A WRITTEN REPORT. ANY CONFLICTS SHALL BE REPORTED TO ENGINEER/OWNER IMMEDIATELY UPON DISCOVERY AND DETAILED IN THE REPORT.
4. CONTRACTOR SHALL COORDINATE WITH ALL OTHER UTILITY OWNERS FOR RESOLUTION OF CONFLICTS. CONTRACTOR SHALL HAVE 48 HOURS TO DETERMINE THE RESOLUTION OF ANY UNKNOWN OR UNFORESEEN CONFLICTS. COSTS INCURRED SHALL BE BORNE BY THE UTILITY OWNER AND/OR CONTRACTOR AND NO CLAIMS MAY BE MADE AGAINST ORANGE COUNTY OR THE ENGINEER FOR THESE CONFLICTS. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR THE PERIOD OF TIME TO RESOLVE ANY CONFLICTS.
5. ALL EXCAVATIONS SHALL BE BACK FILLED AT THE END OF EACH WORK DAY
6. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN CONSTRUCTION AND ARE THE MINIMUM REQUIRED. CONTRACTOR SHALL FURNISH ADDITIONAL CONTROLS AS NEEDED AT NO ADDITIONAL COST. MATERIALS FROM WORK ON THIS PROJECT SHALL BE CONTAINED AND NOT ALLOWED TO COLLECT ON ANY OFF PERIMETER AREAS OR IN WATERWAYS. SILK SCREENS, HAY BALES, AND TURBIDITY BARRIERS MUST REMAIN IN PLACE AND IN GOOD CONDITION AT ALL LOCATIONS IN PLANS OR AS REQUIRED UNTIL THE CONTRACT IS COMPLETED AND SOILS ARE STABILIZED AND VEGETATION IS ESTABLISHED. MEASURES SHOWN ON THE PLANS ARE MINIMUM REQUIRED, AND THE CONTRACTOR SHALL ENSURE THAT THERE IS NO DIRECT OR INDIRECT DISCHARGE OF CONSTRUCTION MATERIALS IN TURBID WATERS TO OFF SITE AREAS OR WATERWAYS.
7. WHERE REQUIRED, AT NO ADDITIONAL COST TO THE COUNTY, THE CONTRACTOR SHALL USE TEMPORARY SHEETING OR TRENCH BOXES TO MINIMIZE THE SIZE OF EXCAVATIONS AND PROTECT EXISTING ROADWAYS, UTILITIES AND OTHER FACILITIES OR AS NEEDED TO REMAIN WITHIN THE LIMITS OF CONSTRUCTION. CONTRACTOR TO COMPLY WITH OSHA TRENCH SAFETY REQUIREMENTS AT ALL TIMES.
8. THE DISPOSAL OF ANY EXCESS EARTH WORK MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DE-WATERING REQUIRED DURING CONSTRUCTION AND TO OBTAIN AND PAY FOR ALL PERMITS REQUIRED FOR THE TEMPORARY DE-WATERING.
10. PIPE LENGTHS SHOWN ON PLANS ARE APPROXIMATE. ACTUAL LENGTHS ARE TO BE DETERMINED DURING CONSTRUCTION.
11. CONTRACTOR SHALL CONTACT AND COORDINATE WITH TECO GAS FOR THE INSTALLATION OF HORIZONTALLY DIRECTIONALLY DRILLED (HDD) FORCE MAIN. TECO SHALL BE NOTIFIED THREE (3) WEEKS IN ADVANCE OF THE START OF THE HDD AND BE PRESENT DURING THE DRILLING FOR THE HDD.
12. PEAK INFLOW INTO ORANGE COUNTY PUMP STATION #3455 IS APPROXIMATELY 400 GPM. CONTRACTOR SHALL BE PREPARED TO BY PASS AND / OR TANKER THIS INFLUENT FLOW RATE WHEN CUTTING AND CONNECTING NEW 12 INCH FORCE MAIN TO EXISTING 10 INCH FORCE MAIN.

12. PEAK INFLOW INTO ORANGE COUNTY PUMP STATION #3455 IS APPROXIMATELY 400 GPM. CONTRACTOR SHALL BE PREPARED TO BY PASS AND / OR TANKER THIS INFLUENT FLOW RATE WHEN CUTTING AND CONNECTING NEW 12 INCH FORCE MAIN TO EXISTING 10 INCH FORCE MAIN.

**MAINTENANCE OF TRAFFIC**

1. FOR ALL COUNTY ROADS TO BE OPEN CUT, THE CONTRACTOR SHALL SUBMIT A MAINTENANCE OF TRAFFIC (MOT) PLAN CONFORMING TO ORANGE COUNTY RIGHT-OF-WAY UTILIZATION REGULATIONS TO ORANGE COUNTY PUBLIC WORKS (OCPW) A MINIMUM OF FOURTEEN (14) DAYS PRIOR TO ANY WORK WITHIN COUNTY RIGHT-OF-WAY. A COPY OF THIS PLAN SHALL ALSO BE SUBMITTED TO THE ENGINEER AND UTILITY COUNTY INSPECTOR. NOTIFY THE COUNTY INSPECTOR 48 HOURS PRIOR TO ANY OPEN CUT OF ROADWAYS WITHIN THE COUNTY RIGHT-OF-WAY. TWO WAY TRAFFIC MUST BE MAINTAINED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION. MAINTAIN A SET OF COUNTY APPROVED CONSTRUCTION PLANS AND MOT PLANS AT THE CONSTRUCTION SITE AT ALL TIMES WHEN WORKING WITHIN THE COUNTY RIGHT-OF-WAY.
2. IN AREAS WHERE CONSTRUCTION ACTIVITIES RESTRICT NORMAL ACCESS TO PROPERTIES, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALTERNATE ACCESS ROUTES WHICH ARE SUBJECT TO APPROVAL BY OCPW, AS PART OF THE M.O.T. PLAN.
3. MAINTAIN EMERGENCY VEHICLE ACCESS TO ALL BUSINESSES AND RESIDENCES AT ALL TIMES.
4. LOCAL RESIDENTIAL/BUSINESS ACCESS SHALL BE MAINTAINED AT ALL TIMES. PROVIDED WRITTEN NOTIFICATION TO RESIDENTS SEVEN (7) DAYS PRIOR TO IMPLEMENTING ANY ROADWAY OR DRIVEWAY CLOSURE.

No.	REVISIONS	BY	DATE

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 SCALE: AS NOTED



**ORANGE COUNTY UTILITIES**  
 9150 CURRY FORD ROAD  
 ORLANDO, FLORIDA 32825



BARNES, FERLAND AND ASSOCIATES, INC.  
 1230 HILLCREST ST., STE 100  
 ORLANDO, FL 32803  
 PH: (407) 896-8608  
 ENGINEERING REGISTRY NO. 6899

ORANGWOOD BLVD AERIAL PIPE CROSSING REPLACEMENTS  
**GENERAL NOTES**

DESIGN ENGINEER  
 CYNTHIA K. MALONE, P.E.  
 FLORIDA REGISTRATION No. 58685

PROJECT No.: 2020-27-18  
 PROJECT DATE: NOV 2023  
 DESIGNED BY: CKM  
 DRAWN BY: JAB  
 CHECKED BY: CKM  
 DRAWING FILE: SEE MARGIN

DRAWING No.  
**G-103**  
 SHEET  
 4 OF 17

SUMMARY OF QUANTITIES			
BID ITEM	DESCRIPTION	U-101 (TOTAL QTY)	UNIT
1	Mobilization, Demobilization, Bonds, and Permits (not to exceed 5% of the total of all bid items except bid items under section 10.1 General)	1	LS
2	Preconstruction Audio-Video Documentation	1	LS
3	Indemnification	1	LS
4	Project Record Documents (a minimum of 1% of the total of all bid items except bid items under section 10.1 General)	1	LS
5	Maintenance of Traffic	1	LS
6	Public Information Officer	1	LS
7	Erosion and Sediment Control	1	LS
8	Unsuitable Materials	10	CY
9	Concrete Base (8" thick)	91	SY
10	Milling and Resurfacing (FC 9.5, 1.5" thick)	620	SY
11	Asphalt Pavement Removal and Replacement (SP 12.5, 4.5" thick)	91	SY
12	Asphalt Pavement Removal and Replacement (FC 9.5, 1.5" thick)	91	SY
13	Concrete Pavement Removal and Replacement (4" thick)	251	SY
14	Reinforced Concrete PS #3455 Driveway (8" thick)	22	SY
15	Concrete Curb and/or Curb & Gutter Removal and Replacement	76	LF
16	Abandon-In-Place 4" Pipe (Grout Fill)	150	LF
17	Abandon-In-Place 10" Pipe (Grout Fill)	35	LF
18	Remove Existing 10" Pipe (Buried)	165	LF
19	Remove Existing 10" Pipe (Attached to Bridge)	730	LF
20	Remove Existing 24" Steel Casing	34	LF
21	Water Main w/fittings & RJs (12" diameter, DI)	40	LF
22	Forcemain w/fittings & RJs (12" diameter, PVC)	226	LF
23	Plug Valve with Box (12" diameter)	4	EA
24	Tapping Sleeve and Valve Assembly (10" diameter)	4	EA
25	Cut-in Connection to Existing FM (10" diameter)	1	EA
26	Line Stop Assembly (10" diameter)	4	EA
27	Offset Air Release Valve Assembly (2" diameter)	2	EA
28	Water Service Connection	1	EA
29	Water Test Station	1	EA
30	Wastewater Test Station	1	EA
31	Directional Drill HDPE WM (12" diameter)	439	LF
32	Directional Drill HDPE FM (12" diameter)	419	LF

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ORANGEWOOD BLVD AERIAL PIPE CROSSING REPLACEMENTS  
  
SUMMARY OF QUANTITIES

DESIGN ENGINEER  
CYNTHIA K. MALONE, P.E.  
  
FLORIDA REGISTRATION No.  
58685

PROJECT No.: 2020-27-18  
PROJECT DATE: NOV 2023  
DESIGNED BY: CKM  
DRAWN BY: JAB  
CHECKED BY: CKM  
DRAWING FILE: SEE MARGIN

DRAWING No.  
**G-104**  
SHEET  
5 OF 17

**SURVEYOR'S REPORT:**

1. THIS SURVEY DOES NOT DETERMINE OWNERSHIP OF THE LANDS SHOWN HEREON.
2. MEASUREMENT METHODS USED FOR THIS SURVEY MEET STANDARDS OF PRACTICE FOR LAND SURVEYING CHAPTER 5J-17 REQUIREMENTS. DIMENSIONS ARE SHOWN IN UNITED STATES STANDARD SURVEY FEET AND DECIMALS THEREOF UNLESS OTHERWISE NOTED.
3. THIS SURVEY WAS PERFORMED WITHOUT BENEFIT OF AN ABSTRACT, TITLE SEARCH, TITLE OPINION OR TITLE COMMITMENT. A TITLE SEARCH MAY REVEAL ADDITIONAL INFORMATION AFFECTING THE PARCEL AS SHOWN.
4. EASEMENTS OR RIGHTS OF WAY THAT APPEAR ON RECORDED PLANS OR THAT HAVE BEEN FURNISHED TO THE SURVEYOR BY OTHERS HAVE BEEN INCORPORATED INTO THIS DRAWING WITH APPROPRIATE NOTATION. OTHER EASEMENTS MAY BE DISCOVERED BY A SEARCH OF THE PUBLIC RECORDS.
5. RIGHT OF WAY INFORMATION SHOWN HEREON WAS DETERMINED BY FOUND MONUMENTATION, RECORDED PLATS, RECORDED RIGHT OF WAY MAPS, AND INFORMATION OBTAINED ON THE ORANGE COUNTY PROPERTY APPRAISERS WEB SITE. NO RIGHT OF WAY DOCUMENTATION WAS PROVIDED BY CLIENT.
6. FEATURES SHOWN BY SYMBOL AS INDICATED IN THE LEGEND ARE NOT TO SCALE.
7. THE HORIZONTAL POSITIONS FOR ALL FEATURES SHOWN ON THE MAP ARE RELATIVE TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983/2011 ADJUSTMENT (NAD 83/11), ZONE 901, FLORIDA EAST. HORIZONTAL CONTROL WAS ESTABLISHED USING THE FLORIDA DEPARTMENT OF TRANSPORTATION'S (FDOT) FLORIDA PERMANENT REFERENCE NETWORK (FRPN), A REAL TIME KINEMATIC (RTK) GLOBAL POSITIONING SYSTEM (GPS).
8. VERTICAL INFORMATION SHOWN HEREON REFERS TO ORANGE COUNTY BENCHMARK "S1327030", A 3.5" BRASS DISK HAVING AN ELEVATION OF 83.549 FEET. ALL SET CONTROL WAS ELEVATED BY COMPLETING A CLOSED LOOP BENCH RUN FROM THE ABOVEMENTIONED PRIMARY VERTICAL CONTROL POINTS. SAID BENCH RUN CLOSURE IS ACCURATE TO A STANDARD OF 0.05' TIMES THE SQUARE ROOT OF THE BENCHRUN DISTANCE IN MILES.
9. IMPROVEMENTS & TOPOGRAPHIC FEATURES SHOWN HEREON ARE LIMITED TO AREAS PER SPECIFIC INSTRUCTIONS OF THE CLIENT.
10. SUBSURFACE UTILITIES DEPICTED HEREON ARE THE HORIZONTAL LOCATIONS OF PAINT MARKS AND FLAGS PLACED BY SUBSURFACE UTILITY ENGINEERING FIELD TECHNICIANS. THE MARKS WERE DETERMINED USING SURFACE GEOPHYSICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO GROUND PENETRATING RADAR (GPR) AND/OR ELECTROMAGNETIC LOCATORS. UTILITY CHARACTERISTICS, METHODS OF INSTALLATION, SOIL CONDITIONS AND THE SURROUNDING ENVIRONMENT ALL MAY ADVERSELY IMPACT THE RESULTS OF ANY UTILITY INVESTIGATION. FOR THESE REASONS THE LOCATIONS OF THE SUBSURFACE UTILITIES SHOULD BE CONSIDERED APPROXIMATE UNLESS CLEARLY EXPOSED AND VISUALLY VERIFIED AT SPECIFIC LOCATIONS. NO GUARANTEE IS MADE THAT ALL UTILITIES WILL BE FOUND AND IDENTIFIED.
11. SUBSURFACE UTILITIES WERE VISUALLY VERIFIED AT SPECIFIC LOCATIONS USING NON-INVASIVE VACUUM EXCAVATION TECHNIQUES. AN IRON ROD AND CAP, NAIL AND DISK OR X-CUT IN CONCRETE WERE SET AT THE GROUND SURFACE ABOVE THE HORIZONTAL LOCATION OF THE UTILITY. ONCE THE UTILITY WAS EXPOSED THE DEPTH FROM THE SET POINT AT THE GROUND SURFACE WAS THEN SURVEYED TO OBTAIN AN ELEVATION. THE RECORDED DEPTH OF THE SUBSURFACE UTILITY WAS SUBTRACTED FROM THE ELEVATION TO DETERMINE THE ELEVATION OF THE TOP OF THE SUBSURFACE UTILITY. UTILITY DEPTH BELOW GRADE MEASUREMENTS ARE CERTIFIED TO THE LAST DAY OF FIELD EFFORT AS NOTED BELOW.
12. ALL SUBSURFACE UTILITY ENGINEERING WORK PERFORMED WAS DONE IN ACCORDANCE WITH THE AMERICAN SOCIETY OF CIVIL ENGINEERS' (ASCE) STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA (ASCE/CI 38-02). QUALITY LEVELS SHOWN IN THE SURVEY ARE REFERENCED TO ASCE/CI 38-02.
13. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN REPRESENT ALL UTILITIES IN THE AREA, WHETHER IN SERVICE OR ABANDONED, OR THAT THE UNDERGROUND UTILITIES ARE IN THE EXACT LOCATION SHOWN, BUT DOES CERTIFY THAT THEY HAVE BEEN LOCATED AS ACCURATELY AS POSSIBLE FROM AVAILABLE INFORMATION.
14. THE SURVEY MAP AND REPORT OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
15. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
16. THE LAST DATE OF FIELD EFFORT WAS 06/16/2023.

**PREPARED FOR:**  
BFA

**SURVEYOR'S CERTIFICATION**

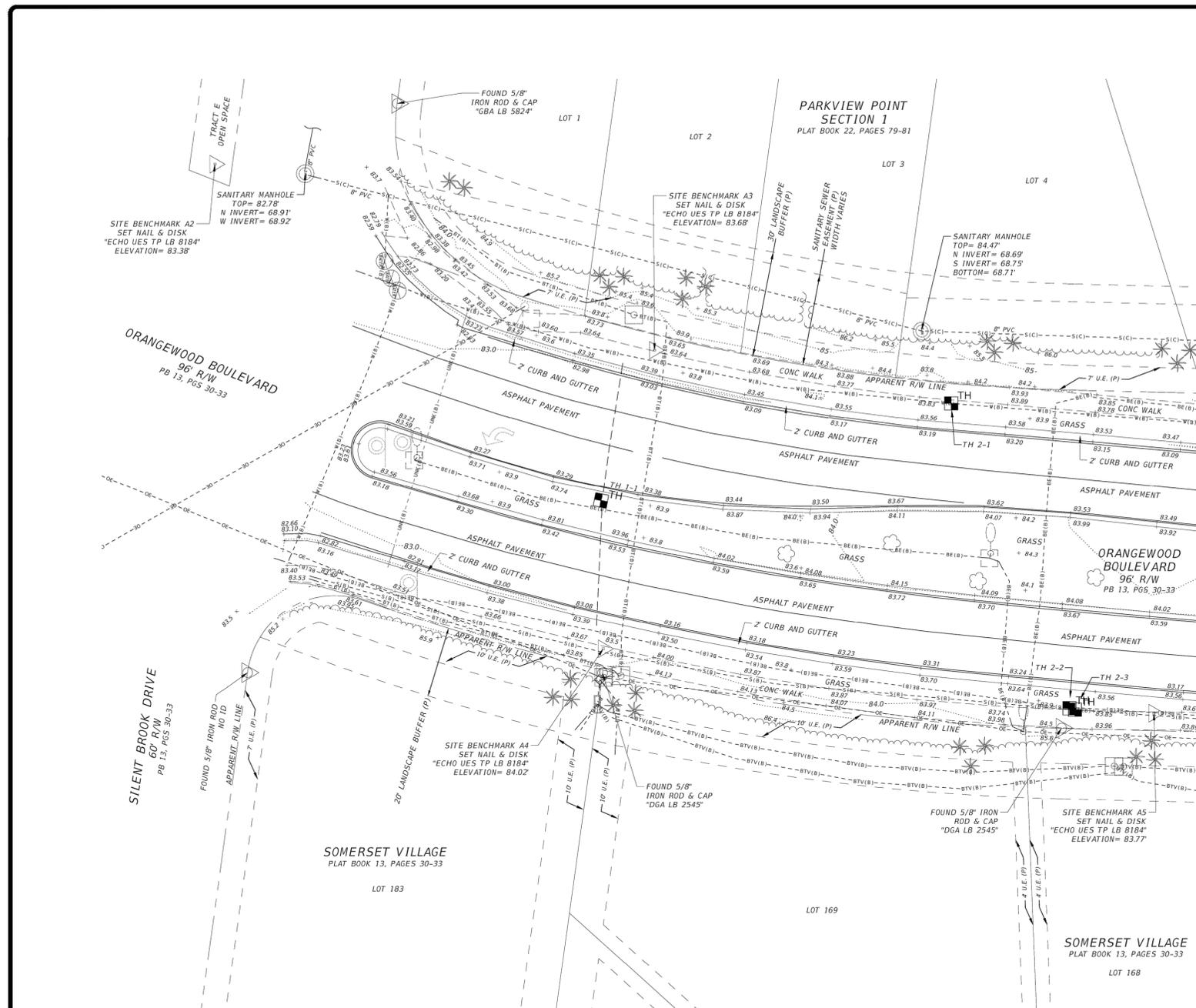
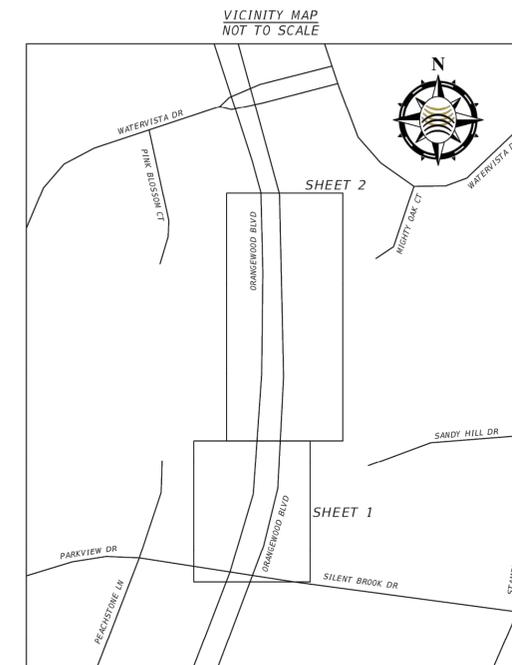
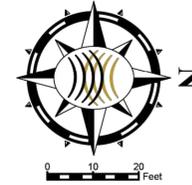
I HEREBY CERTIFY THAT A SURVEY OF THE PROPERTY SHOWN HEREON WAS MADE UNDER MY SUPERVISION AND THAT THE SURVEY MEETS THE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO CHAPTER 472.027 OF THE FLORIDA STATUTES AND THAT THE SKETCH HEREON IS A TRUE AND ACCURATE REPRESENTATION THEREOF TO THE BEST OF MY KNOWLEDGE AND BELIEF, SUBJECT TO NOTES AND NOTATIONS SHOWN.



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ERIC E. CAIN  
FLORIDA PROFESSIONAL SURVEYOR & MAPPER LS 7131

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



**LEGEND & ABBREVIATIONS**

<ul style="list-style-type: none"> <li>○ = BOLLARD</li> <li>□ = DELINEATOR POST</li> <li>⊠ = END OF INFORMATION (ELECTRONIC)</li> <li>⊠ = FLAT GRATE INLET</li> <li>⊠ = IRON ROD &amp; CAP (AS NOTED)</li> <li>⊠ = LIGHT POLE</li> <li>⊠ = MANHOLE - SANITARY</li> <li>⊠ = MANHOLE - STORM</li> <li>⊠ = METER - ELECTRIC</li> <li>⊠ = METER - WATER</li> </ul>	<ul style="list-style-type: none"> <li>△ = NAIL &amp; DISK</li> <li>⊠ = POWER POLE</li> <li>⊠ = SERVICE CABINET</li> <li>⊠ = SINGLE SUPPORT SIGN</li> <li>⊠ = SIGNAL SUPPORTS (INCLUDING MAST ARM)</li> <li>⊠ = TELEPHONE PEDESTAL</li> <li>⊠ = TEST HOLE</li> <li>⊠ = TREE</li> <li>⊠ = TREE - OAK</li> <li>⊠ = TREE - PALM</li> </ul>	<ul style="list-style-type: none"> <li>⊠ = TREE (PINE)</li> <li>⊠ = VALVE COVER (GAS)</li> <li>⊠ = VALVE COVER (NON-POTABLE WATER)</li> <li>⊠ = VALVE COVER - WATER</li> <li>⊠ = WIRE PULL BOX</li> <li>CONC = CONCRETE</li> <li>D.E. = DRAINAGE EASEMENT</li> <li>D.U.E. = DRAINAGE &amp; UTILITY EASEMENT</li> <li>LB = LICENSED BUSINESS</li> <li>LS = LICENSED SURVEYOR</li> </ul>
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MH = MANHOLE	NO. = NUMBER	ORB = OFFICIAL RECORDS BOOK	P = PLAT BOOK	PG(S) = PAGE(S)	PVC = POLYVINYL CHLORIDE PIPE OR CONDUIT	R/W = RIGHT OF WAY	RCP = REINFORCED CONCRETE PIPE	U.E. = UTILITY EASEMENT
--------------	--------------	-----------------------------	---------------	-----------------	--	--------------------	--------------------------------	-------------------------

---BE(B)---	= BURIED ELECTRIC - EXISTING TYPE B
---BFOT(B)---	= BURIED FIBER OPTIC TELEPHONE - EXISTING TYPE B
---G(B)---	= BURIED GAS - EXISTING TYPE B
---BT(B)---	= BURIED TELEPHONE-EXISTING TYPE B
---UN(B)---	= BURIED UNKNOWN UTILITY-EXISTING TYPE B
---S(B)---	= BURIED SANITARY FORCE MAIN - EXISTING TYPE C
---W(B)---	= BURIED WATER-EXISTING TYPE D
---OE---	= OVERHEAD ELECTRIC - EXISTING
---F---	= FENCE LINE
---	= HEDGE LINE

**ECHO** UTILITY ENGINEERING & SURVEY  
 ECHO UES, INC.  
 CERTIFICATION OF AUTHORIZATION 8184  
 400 STATE ROAD 434, SUITE 1024  
 OVIEDO, FLORIDA 32765  
 888.778.ECHO | www.echoues.com

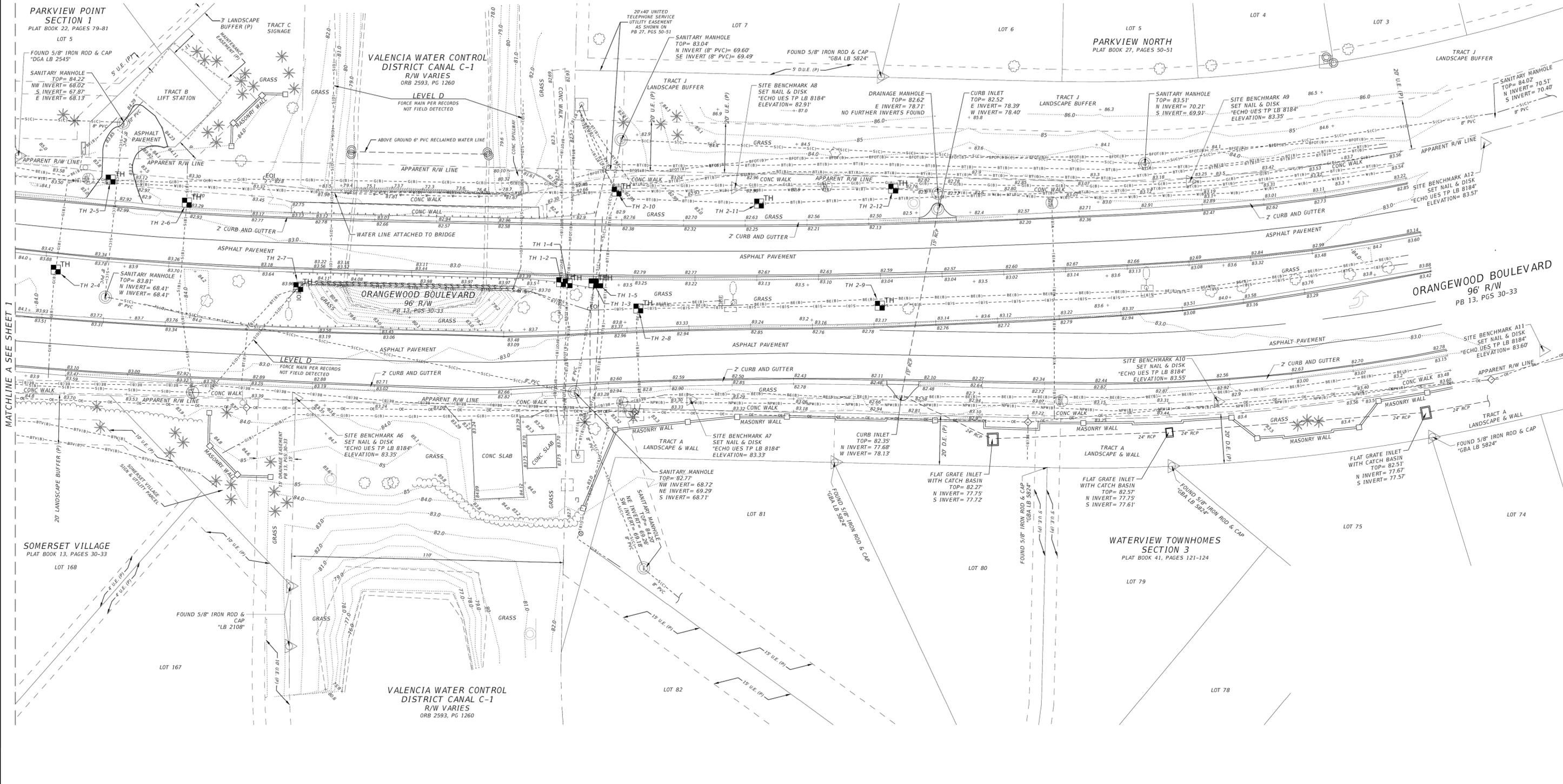
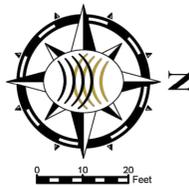
No.	REVISIONS	BY	DATE

ORANGE COUNTY UTILITIES  
 9150 CURRY FORD ROAD  
 ORLANDO, FLORIDA 32825

**BFA**  
 BARNES, FERLAND AND ASSOCIATES, INC.  
 1230 HILLCREST ST., STE 100  
 ORLANDO, FL 32803  
 PH: (407) 896-8608  
 ENGINEERING REGISTRY NO. 6899

ORANGWOOD BLVD AERIAL PIPE CROSSING REPLACEMENTS  
**TOPOGRAPHICAL SURVEY**

PROJECT No.: 2020-27-18	DRAWING No. V-100
PROJECT DATE: NOV 2023	SHEET 6 OF 17
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
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**ORANGE COUNTY**  
GOVERNMENT

ORANGE COUNTY UTILITIES  
9150 CURRY FORD ROAD  
ORLANDO, FLORIDA 32825

**BFA**

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ORANGETOWN BLVD AERIAL PIPE CROSSING REPLACEMENTS

**TOPOGRAPHICAL SURVEY**

PROJECT No.: 2020-27-18  
DRAWING No. V-101

DESIGNED BY:  
DRAWN BY:  
CHECKED BY:  
DRAWING FILE: SEE MARGIN

SHEET 7 OF 17



**TEST HOLE DATA**

Location ID	Horizontal Coordinates	Utility Size	Utility Type	Utility Material	Utility Depth (ft)	(Presumed) Utility Owner	Ground Elevation	Utility Elevation
1-1	N 1478827.39	2.00"	UNK	PVC	3.65	UNKNOWN	84.02	80.37
	E 513055.28							
1-2	N 1479218.38	4.00"	FOC	PE	3.10	UNKNOWN	83.51	80.41
	E 513075.95							
1-3	N 1479231.53	5.00"	UNK	STL	3.95	UNKNOWN	83.42	79.47
	E 513076.40							
1-4	N 1479221.00	4.00"	FOC/BT	PE	2.82	UNKNOWN	83.61	80.79
	E 513076.43							
1-5	N 1479233.44	4.00"	UNK	STL	4.05	UNKNOWN	83.39	79.34
	E 513076.49							
2-1	N 1478926.96	10.00"	WM	PVC	5.45	ORANGE COUNTY UTILITIES	83.97	78.52
	E 513027.64							
2-2	N 1478960.57	2.00"	BE	PE	3.40	DUKE	83.96	80.56
	E 513114.18							
2-3	N 1478962.13	10.00"	FM	PVC	6.60	ORANGE COUNTY UTILITIES	83.89	77.29
	E 513114.60							
2-4	N 1479013.88	2.50"	GM	STL	4.95	TECO	84.03	79.08
	E 513070.83							
2-5	N 1479036.07	4.00"	GM	STL	6.90	TECO	83.18	76.28
	E 513034.45							
2-6	N 1479066.96	24.00"	CASING	STL	3.40	ORANGE COUNTY UTILITIES	83.68	80.28
	E 513043.77							
2-7	N 1479112.02	3.00"	BT	DBC	3.40	LUMEN	83.87	80.47
	E 513077.94							
2-8	N 1479249.64	10.00"	FM	PVC	4.60	ORANGE COUNTY UTILITIES	83.46	78.86
	E 513086.56							
2-9	N 1479347.36	10.00"	FM	PVC	5.20	ORANGE COUNTY UTILITIES	83.82	78.62
	E 513085.42							
2-10	N 1479240.89	10.00"	WM	UNK	12.10	ORANGE COUNTY UTILITIES	82.89	70.79
	E 513039.32							
2-11	N 1479298.48	1.75"	BT	DBC	3.10	LUMEN	83.02	79.92
	E 513044.16							
2-12	N 1479352.79	10.00"	WM	PVC	4.20	ORANGE COUNTY UTILITIES	82.75	78.55
	E 513038.12							

PAVEMENT CORE OBSERVATIONS			
CORE #	COMPONENT LAYER		NOTES
	ASPHALT	BASE	
C-1	6.5"	4"	LIMEROCK BASE
C-2	5.5"	6"	SOIL CEMENT BASE

SOIL BORINGS TABLE			
BORING #	DEPTH (FT)	DEPTH TO GWT (FT)	SHEET
B-1	30.0	4.6	U-101
B-2	30.0	6.0	U-101

Field work performed 5/19/2023 and 10/25/2023 through 11/1/2023  
 Notes: TH 1-3: UTILITY SIZE IS APPROXIMATE; STL PIPE IS RUSTED  
 TH 2-2: ADDITIONAL IRRIGATION AND SERVICE LINES PRESENT AT SHALLOW DEPTH  
 TH 2-3: 10" PER PLANS; UNABLE TO OBTAIN SIZE DUE TO WATER TABLE  
 TH 2-5: 4" PER PLANS; UNABLE TO OBTAIN SIZE DUE TO WATER TABLE BUT VISUALLY VERIFIED GM; APPEARS TO BE RUSTED  
 TH 2-6: FM IS IN STEEL CASING  
 TH 2-9: 10" PER PLANS; UNABLE TO OBTAIN SIZE DUE TO ROOTS; FM IS THE SAME IN THE 2-8  
 TH 2-10: 10" PER PLANS; UNABLE TO VERIFY MATERIAL DUE TO DEPTH; POSSIBLE MATERIAL CHANGE UNDER BRIDGE

No.	REVISIONS	BY	DATE

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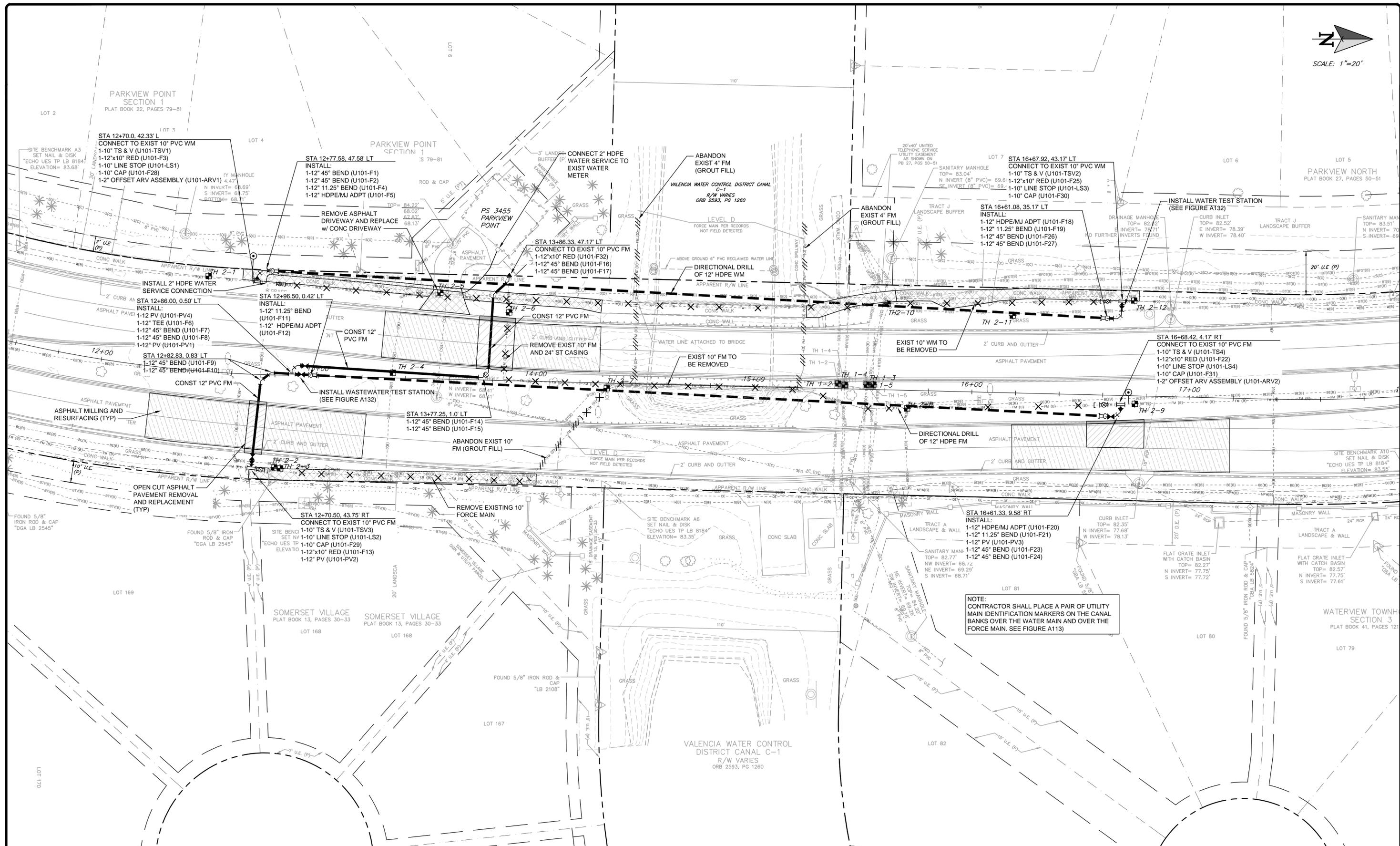
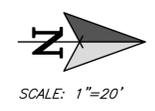
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ORANGEWOOD BLVD AERIAL PIPE CROSSING REPLACEMENTS  
**KEY MAP, SOIL BORING AND TEST HOLE DATA**

DESIGN ENGINEER  
 CYNTHIA K. MALONE, P.E.  
 FLORIDA REGISTRATION No. 58685

PROJECT No.: 2020-27-18  
 PROJECT DATE: NOV 2023  
 DESIGNED BY: CKM  
 DRAWN BY: JAB  
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DRAWING No.  
**U-100**  
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 8 OF 17



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**ORANGE COUNTY UTILITIES**  
9150 CURRY FORD ROAD  
ORLANDO, FLORIDA 32825



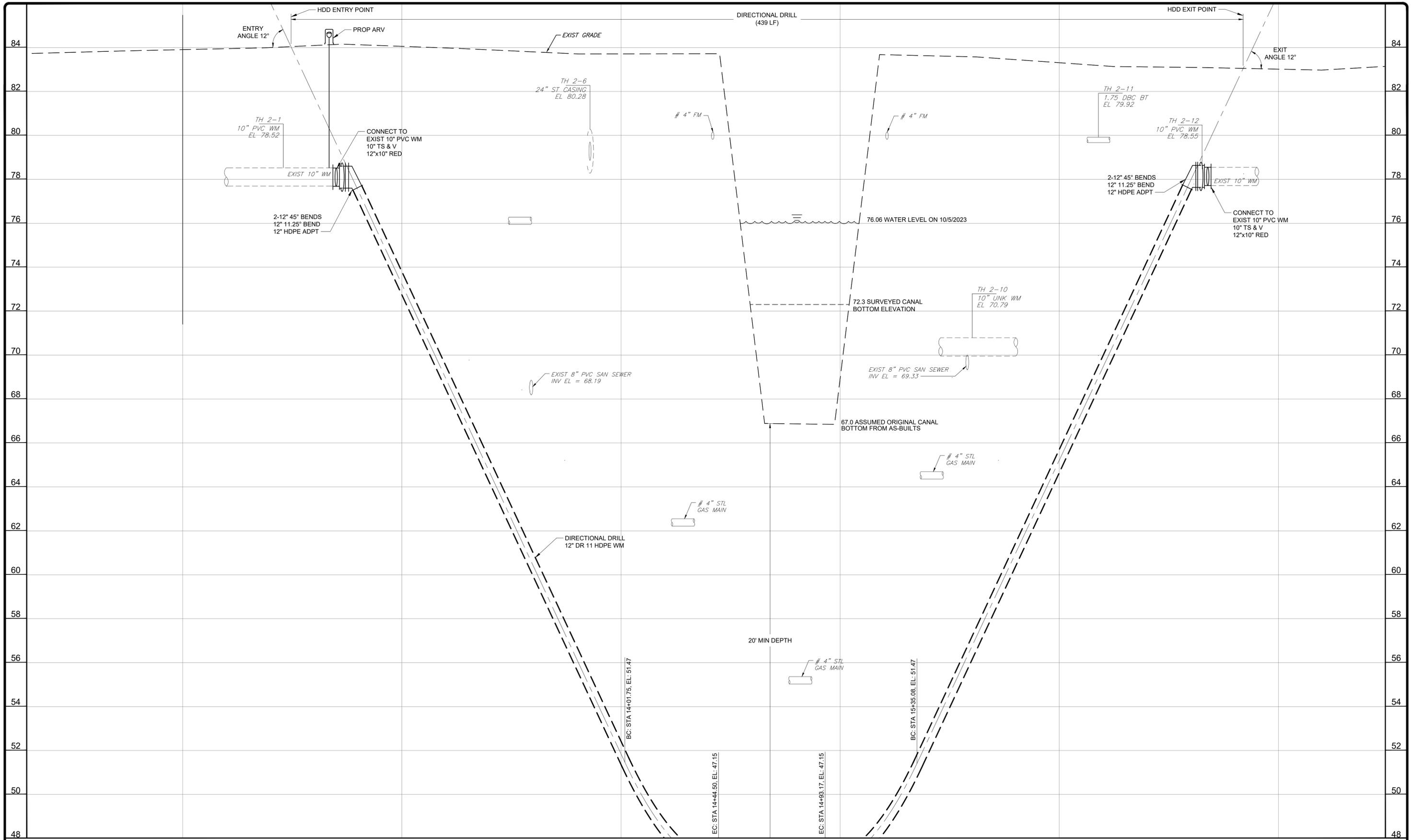
**BFA**  
BARNES, FERLAND AND ASSOCIATES, INC.  
1230 HILLCREST ST., STE 100  
ORLANDO, FL 32803  
PH: (407) 896-8608  
ENGINEERING REGISTRY NO. 6899

ORANGWOOD BLVD AERIAL PIPE CROSSING REPLACEMENTS  
  
**ORANGWOOD BLVD PLAN**

DESIGN ENGINEER  
CYNTHIA K. MALONE, P.E.  
FLORIDA REGISTRATION No. 58685

PROJECT No.: 2020-27-18  
PROJECT DATE: NOV 2023  
DESIGNED BY: CKM  
DRAWN BY: JAB  
CHECKED BY: CKM  
DRAWING FILE: SEE MARGIN

DRAWING No.  
**U-101**  
SHEET  
9 OF 17



No.	REVISIONS	BY	DATE

THIS LINE REPRESENTS  
1 INCH OF DRAWING SCALE  
↓  
REPRODUCTION MAY HAVE  
ALTERED DRAWING SCALE  
SCALE: AS NOTED

**ORANGE COUNTY**  
GOVERNMENT  
FLORIDA

**ORANGE COUNTY UTILITIES**  
9150 CURRY FORD ROAD  
ORLANDO, FLORIDA 32825

**BFA**

BARNES, FERLAND AND ASSOCIATES, INC.  
1230 HILLCREST ST., STE 100  
ORLANDO, FL 32803  
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ENGINEERING REGISTRY NO. 6899

ORANGEWOOD BLVD AERIAL PIPE CROSSING REPLACEMENTS

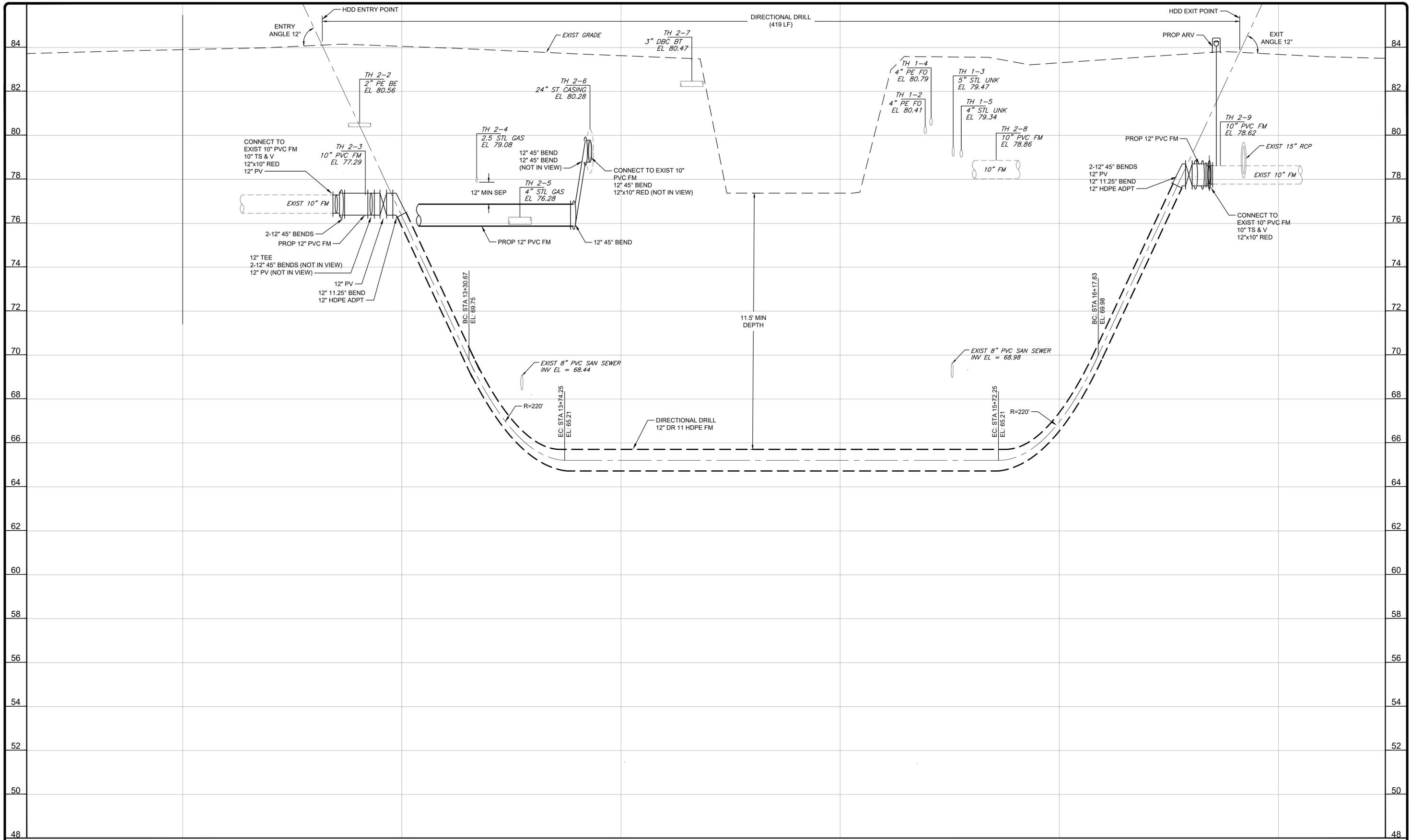
**ORANGEWOOD BLVD WATER MAIN PROFILE**

DESIGN ENGINEER  
CYNTHIA K. MALONE, P.E.

PROJECT No.: 2020-27-18  
PROJECT DATE: NOV 2023  
DESIGNED BY: CKM  
DRAWN BY: JAB  
CHECKED BY: GJH  
DRAWING FILE: SEE MARGIN

FLORIDA REGISTRATION No.  
58685

DRAWING No.  
**U-102**  
SHEET  
10 OF 17



No.	REVISIONS	BY	DATE	THIS LINE REPRESENTS 1 INCH OF DRAWING SCALE	ORANGE COUNTY GOVERNMENT FLORIDA	ORANGE COUNTY UTILITIES 9150 CURRY FORD ROAD ORLANDO, FLORIDA 32825	<b>BFA</b>	BARNES, FERLAND AND ASSOCIATES, INC. 1230 HILLCREST ST., STE 100 ORLANDO, FL 32803 PH: (407) 896-8608 ENGINEERING REGISTRY NO. 6899	ORANGEWOOD BLVD AERIAL PIPE CROSSING REPLACEMENTS	DESIGN ENGINEER CYNTHIA K. MALONE, P.E.	PROJECT No.: 2020-27-18 PROJECT DATE: NOV 2023 DESIGNED BY: CKM DRAWN BY: JAB CHECKED BY: GJH DRAWING FILE: SEE MARGIN	DRAWING No. <b>U-103</b> SHEET 11 OF 17
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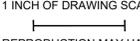


**10 INCH WATER MAIN BRIDGE ATTACHMENT  
WEST SIDE OF BRIDGE**



**10 INCH DI FORCE MAIN BRIDGE ATTACHMENT  
EAST SIDE OF BRIDGE**

No.	REVISIONS	BY	DATE

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1 INCH OF DRAWING SCALE  
  
REPRODUCTION MAY HAVE  
ALTERED DRAWING SCALE  
SCALE: AS NOTED



**ORANGE COUNTY UTILITIES**  
9150 CURRY FORD ROAD  
ORLANDO, FLORIDA 32825



**BARNES, FERLAND AND ASSOCIATES, INC.**  
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ORLANDO, FL 32803  
PH: (407) 896-8608  
ENGINEERING REGISTRY NO. 6899

ORANGWOOD BLVD AERIAL PIPE CROSSING REPLACEMENTS

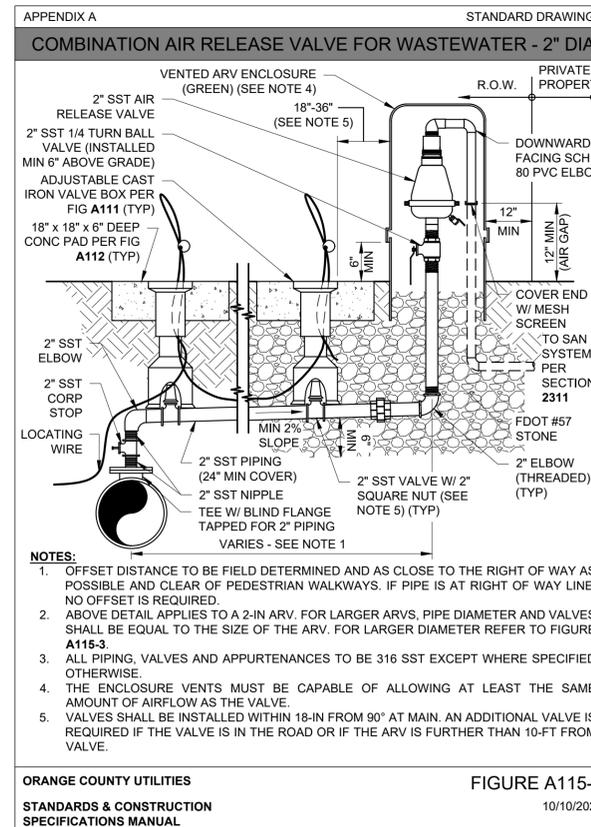
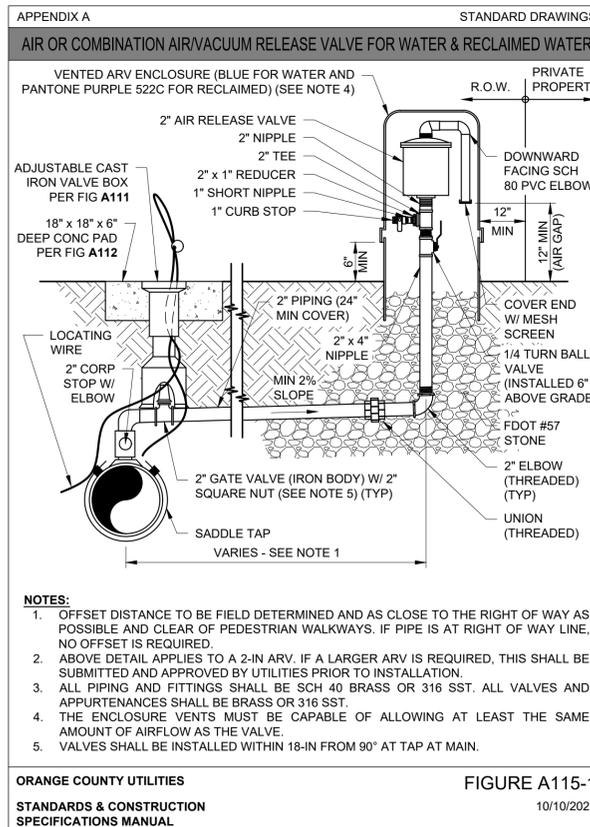
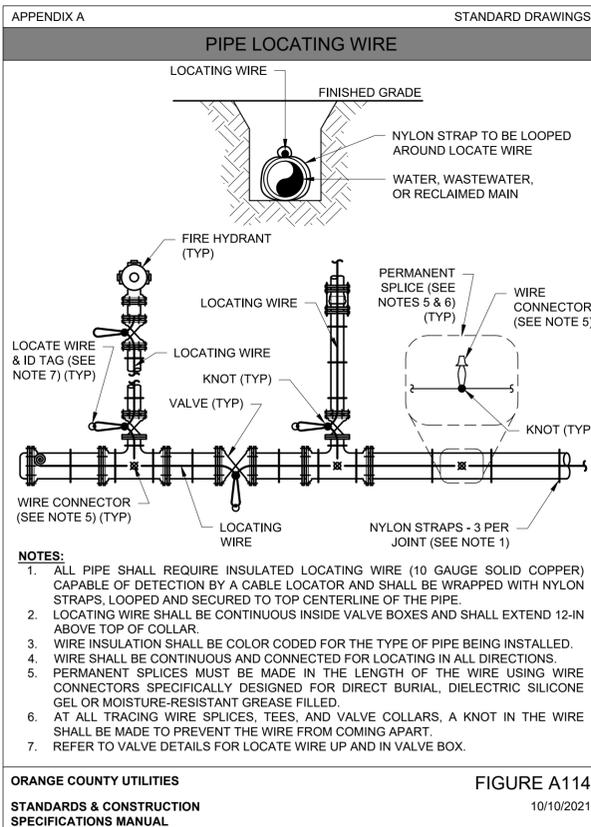
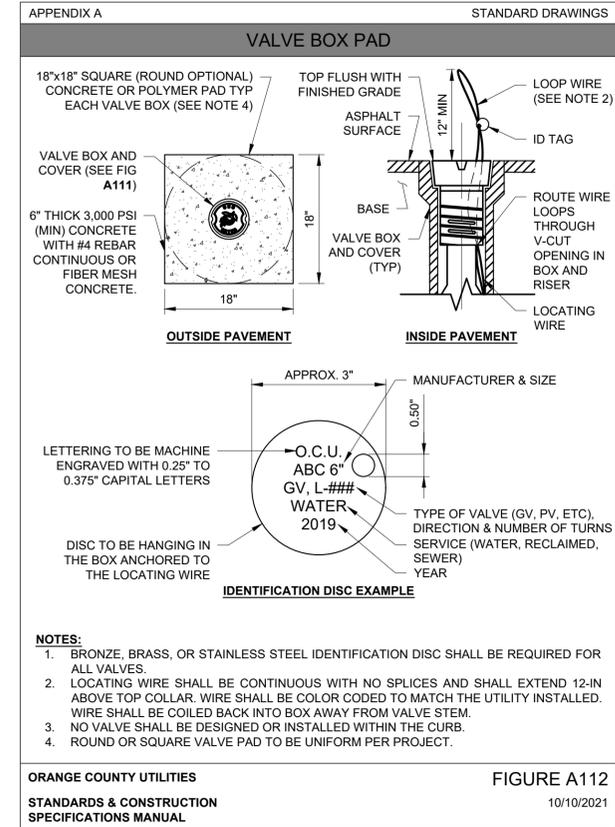
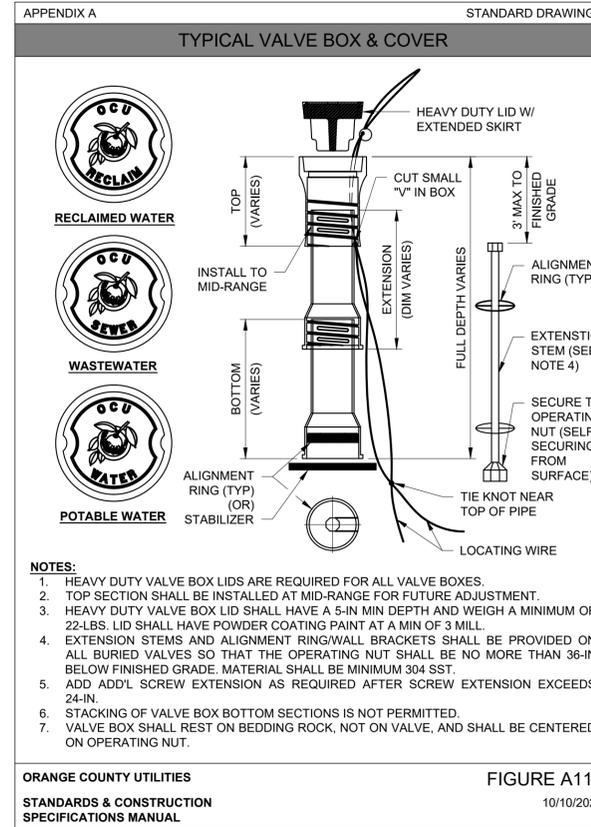
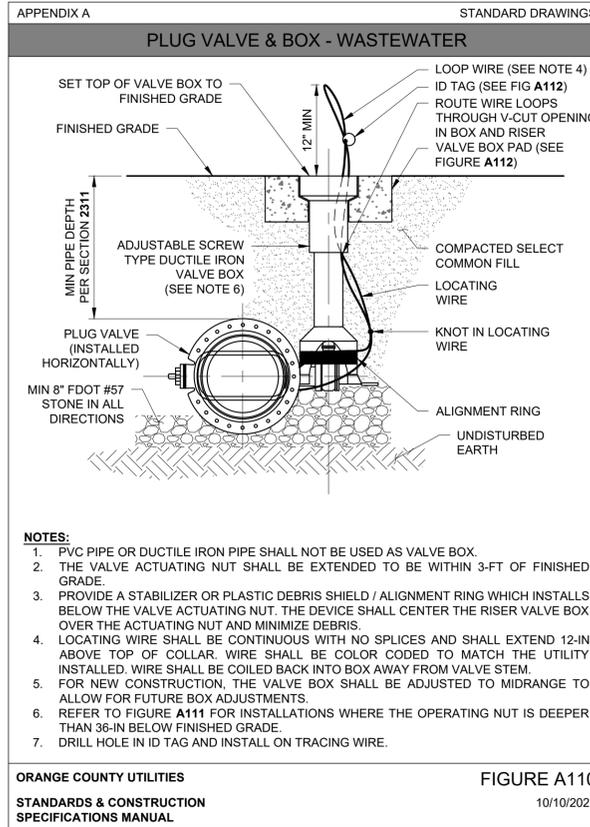
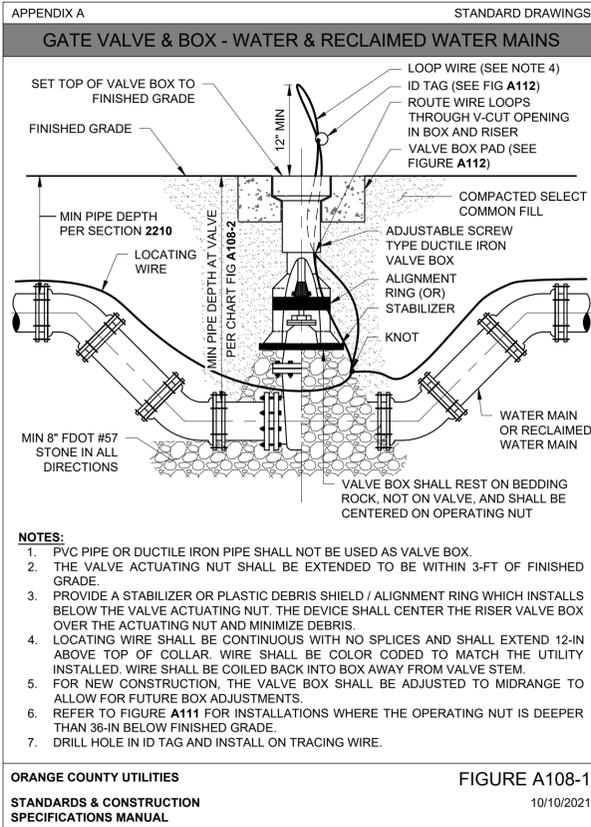
**ORANGWOOD BLVD BRIDGE PIPE REMOVAL**

DESIGN ENGINEER  
CYNTHIA K. MALONE, P.E.  
FLORIDA REGISTRATION No.  
58685

PROJECT No.: 2020-27-18  
PROJECT DATE: NOV 2023  
DESIGNED BY: CKM  
DRAWN BY: JAB  
CHECKED BY: GJH  
DRAWING FILE: SEE MARGIN

DRAWING No.  
**U-104**  
SHEET  
12 OF 17





APPENDIX A STANDARD DRAWINGS  
HORIZONTAL PIPELINE SEPARATION REQUIREMENTS

**HORIZONTAL SEPARATION REQUIREMENTS (NOTES 1 & 2)**

PROPOSED UTILITY	POTABLE WATER (NOTE 3)		RECLAIMED WATER MAIN (SEE NOTE 7)		WASTEWATER FORCEMAIN		SANITARY SEWER	STORM SEWER	STRUCTURAL FOUNDATION, WALLS, ETC. (SEE NOTE 8)
	4'-12"	16'-UP	4'-12"	16'-UP	4'-12"	16'-UP	ALL SIZES	ALL SIZES	ALL SIZES
POTABLE WATER (NOTE 3)	4'-12"	3'	5'	3'	5'	6'	6'	3'	10'
	16'-UP	5'	5'	5'	5'	6'	6'	5'	15' (NOTE 5)
RECLAIMED WATER MAIN (SEE NOTE 7)	4'-12"	3'	5'	3'	5'	3'	3'	3'	10'
	16'-UP	5'	5'	5'	5'	5'	5'	5'	15' (NOTE 5)
WASTEWATER FORCEMAIN	4'-12"	6'	6'	3'	5'	3'	3'	3'	10'
	16'-UP	6'	6'	5'	5'	5'	5'	5'	15' (NOTE 5)
SANITARY SEWER	ALL SIZES	6'	6'	3'	5'	3'	3'	5'	VARIES PER DEPTH

**NOTES:**

- DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
- THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE. FOR PIPES INSTALLED AT GREATER DEPTHS THAN THE MINIMUM OCU DESIGN STANDARDS, PROVIDE AN ADDITIONAL FOOT OF SEPARATION FOR EACH ADDITIONAL FOOT OF DEPTH.
- THIS SEPARATION REQUIREMENT COMPLIES WITH THE MINIMUM FDEP SEPARATION REQUIREMENTS OUTLINED IN 62-555.314, FAC. VARIANCES FROM THE FDEP REQUIREMENTS MUST COMPLY WITH 62-555.314(5), FAC AND MUST BE APPROVED INDIVIDUALLY BY BOTH FDEP AND UTILITIES PRIOR TO INSTALLATION.
- NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURE.
- PRESSURE MAINS 16-IN TO 24-IN MAY HAVE 10-FT SEPARATION FROM STRUCTURAL FOUNDATION, WALLS, ETC IF NEW MAINS ARE RESTRAINED FOR THE ENTIRE LENGTH.
- REFERENCE FIGURE A116-2 FOR VERTICAL PIPELINE SEPARATION REQUIREMENTS.
- RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
- ADDITIONAL SEPARATION SHALL BE REQUIRED BY UTILITIES FOR CONSTRUCTION OF, INCLUDING, BUT NOT LIMITED TO: LIVE LOADS, MULTI-STORY COMMERCIAL BUILDINGS, SUPERSTRUCTURES, EMBANKMENTS, RETAINING WALLS, BRIDGES, RAILROADS, HIGH VOLTAGE TRANSMISSION MAINS, GAS MAINS, ETC.

ORANGE COUNTY UTILITIES FIGURE A116-1  
STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL 10/10/2021

No.	REVISIONS	BY	DATE

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SCALE: AS NOTED

ORANGE COUNTY UTILITIES  
9150 CURRY FORD ROAD  
ORLANDO, FLORIDA 32825



BARNES, FERLAND AND ASSOCIATES, INC.  
1230 HILLCREST ST., STE 100  
ORLANDO, FL 32803  
PH: (407) 896-8608  
ENGINEERING REGISTRY NO. 6899

ORANGWOOD BOULEVARD AERIAL PIPE CROSSING REPLACEMENTS  
CONSTRUCTION DETAILS

DESIGN ENGINEER  
CYNTHIA K. MALONE, P.E.  
FLORIDA REGISTRATION No. 58885

PROJECT No.: 2020-27-18  
PROJECT DATE: NOV 2023  
DESIGNED BY: CKM  
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CHECKED BY: CKM  
DRAWING FILE: SEE MARGIN

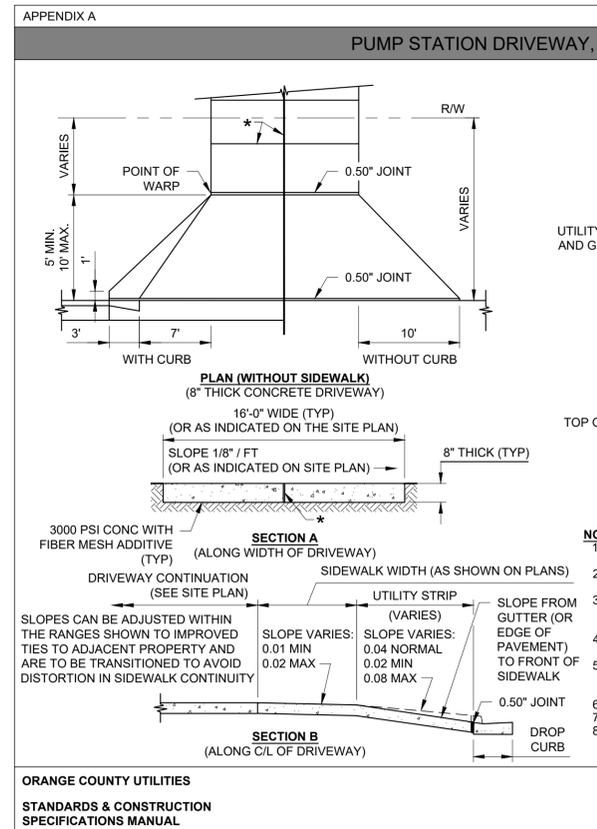
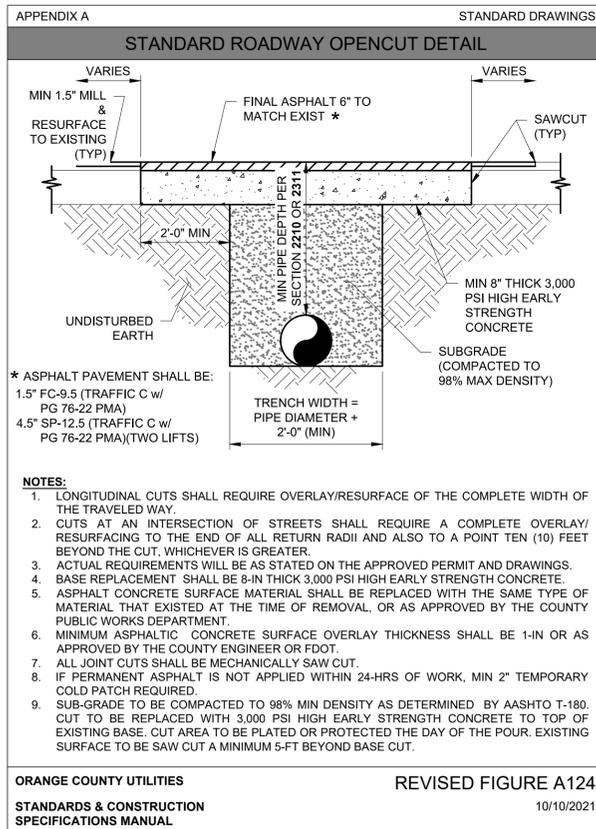
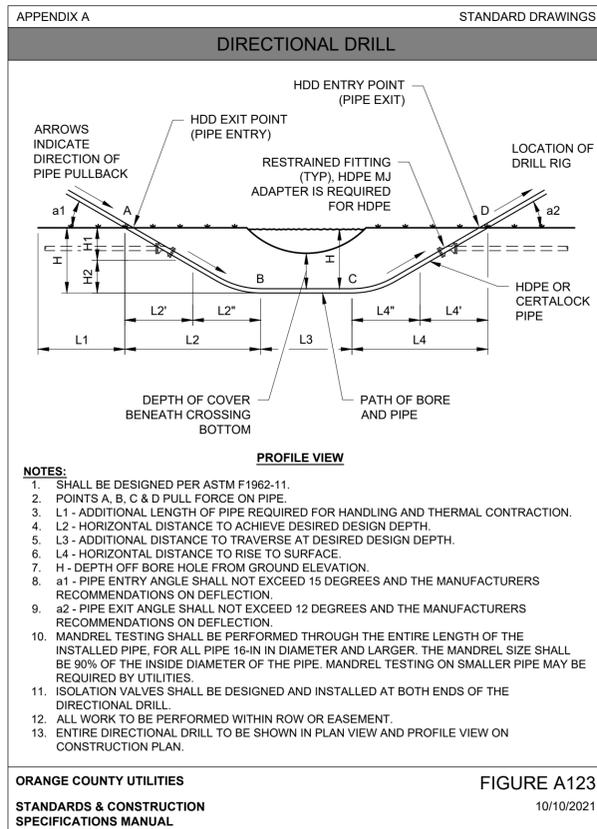
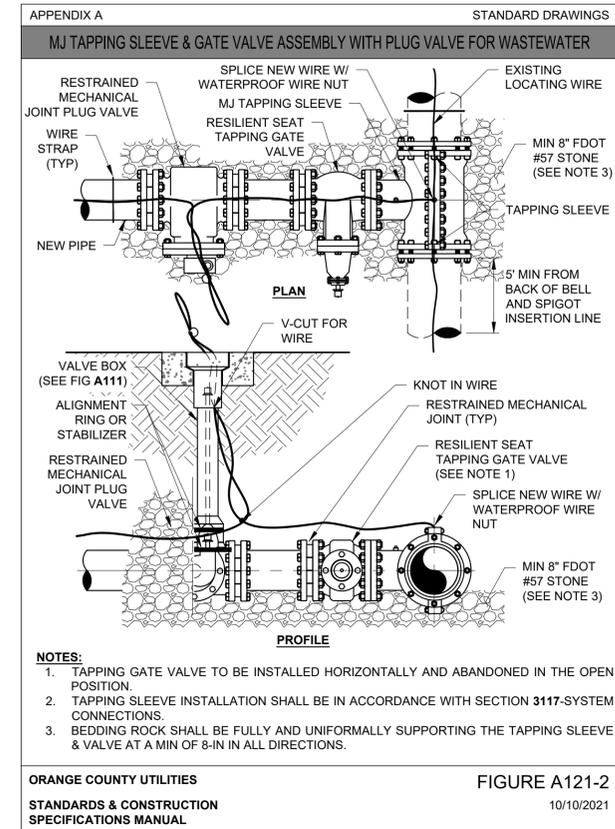
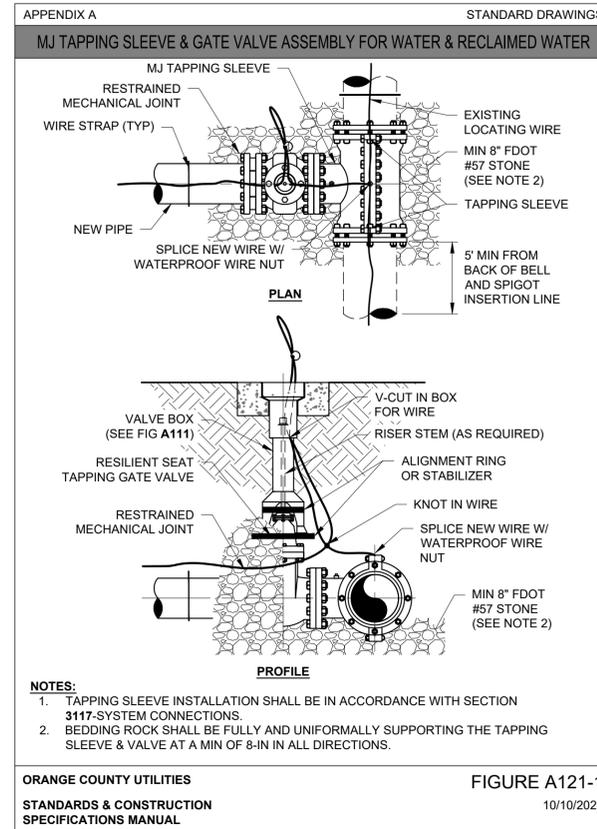
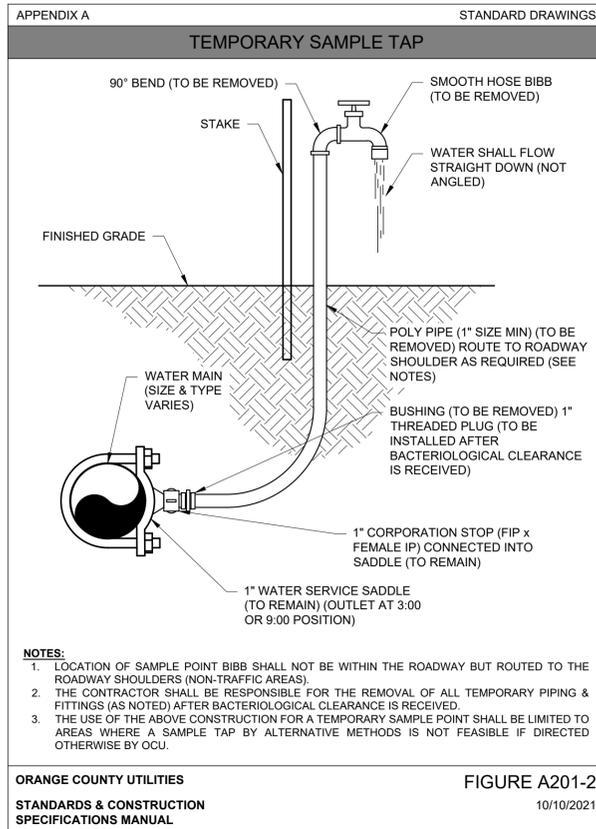
DRAWING No.  
D-101  
SHEET 14 OF 17

APPENDIX A		STANDARD DRAWINGS				
VERTICAL PIPELINE SEPARATION REQUIREMENTS						
<b>VERTICAL SEPARATION REQUIREMENTS (NOTES 1 &amp; 2)</b>						
PROPOSED UTILITY	POTABLE WATER (NOTE 4)	RECLAIMED WATER MAIN	WASTEWATER FORCEMAIN	SANITARY SEWER	STORM SEWER (NOTE 3)	
POTABLE WATER (NOTE 4)	12"	12"	12" / 18"	12" / 18"	12" / 18"	
RECLAIMED WATER MAIN	12"	12"	12"	12"	12" / 18"	
WASTEWATER FORCEMAIN	12"	12"	12"	12"	12" / 18"	
SANITARY SEWER	12" / 18"	12"	12"	12"	12" / 18"	

**NOTES:**

- DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
- THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE.
- THE 18-IN SEPARATION REQUIREMENT APPLIES WHEN THE STORM PIPE OR SANITARY SEWER CROSSES ABOVE THE UTILITY MAIN, AND WHEN THE STORM PIPE HAS A DIAMETER EQUAL TO OR GREATER THAN 24-IN. OTHERWISE, THE REQUIRED SEPARATION IS 12-IN.
- THIS SEPARATION REQUIREMENT COMPLIES WITH THE MINIMUM FDEP SEPARATION REQUIREMENTS OUTLINED IN 62-555.314, FAC. VARIANCES FROM THE FDEP REQUIREMENTS MUST COMPLY WITH 62-555.314(5), FAC AND MUST BE APPROVED INDIVIDUALLY BY BOTH FDEP AND UTILITIES.
- NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURE.
- REFERENCE FIGURE A116-1 FOR HORIZONTAL PIPELINE SEPARATION REQUIREMENTS.
- JOINT SPACING AT CROSSING SHALL COMPLY WITH THE MINIMUM FDEP SEPARATION REQUIREMENTS OUTLINED IN 62-555.314, F.A.C.

ORANGE COUNTY UTILITIES      FIGURE A116-2  
STANDARDS & CONSTRUCTION      10/10/2021  
SPECIFICATIONS MANUAL



No.	REVISIONS	BY	DATE

THIS LINE REPRESENTS  
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REPRODUCTION MAY HAVE  
ALTERED DRAWING SCALE  
SCALE: AS NOTED

**ORANGE COUNTY UTILITIES**  
9150 CURRY FORD ROAD  
ORLANDO, FLORIDA 32825

**BFA**

BARNES, FERLAND AND ASSOCIATES, INC.  
1230 HILLCREST ST., STE 100  
ORLANDO, FL 32803  
PH: (407) 896-8608  
ENGINEERING REGISTRY NO. 6899

ORANGWOOD BOULEVARD AERIAL PIPE CROSSING REPLACEMENTS

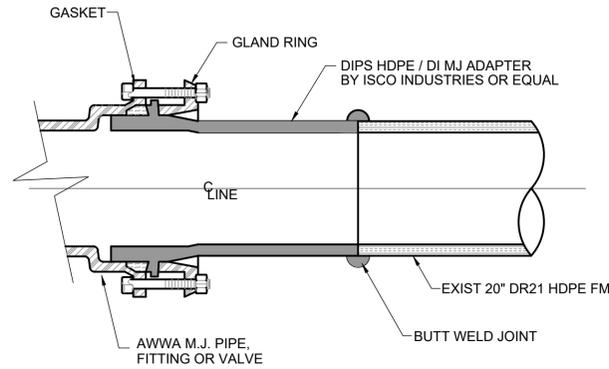
**CONSTRUCTION DETAILS**

DESIGN ENGINEER  
CYNTHIA K. MALONE, P.E.

FLORIDA REGISTRATION No. 58685

PROJECT No.: 2020-27-18  
PROJECT DATE: NOV 2023  
DESIGNED BY: CKM  
DRAWN BY: JAB  
CHECKED BY: CKM  
DRAWING FILE: SEE MARGIN

DRAWING No.  
**D-102**  
SHEET  
15 OF 17

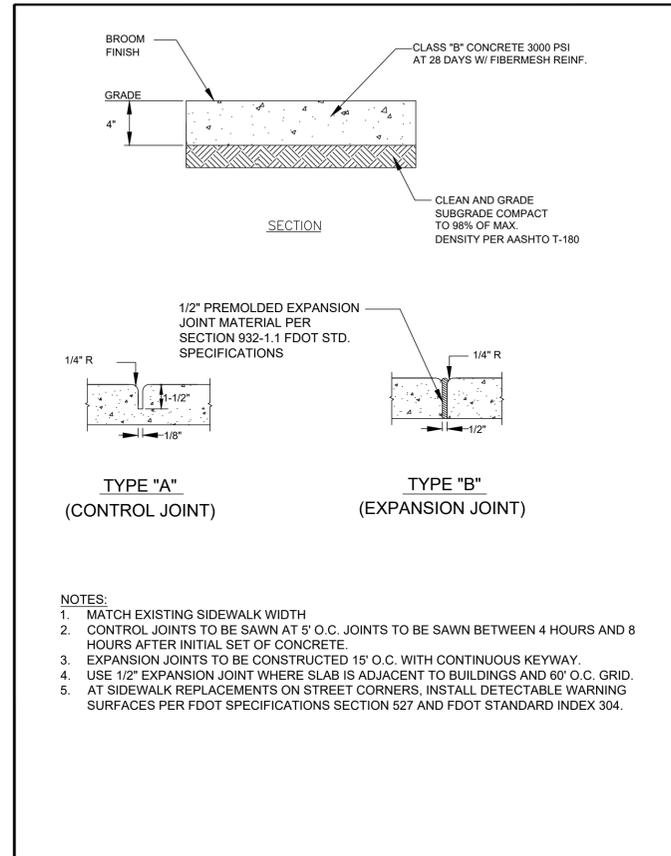


**NOTES:**

1. A RESTRAINED MJ ADAPTER SHALL BE REQUIRED AT LOCATIONS WHERE POLYETHYLENE PIPE IS CONNECTED TO DUCTILE IRON PIPE, FITTINGS OR VALVES.
2. WHERE POLYETHYLENE PIPE CONNECTS TO BUTTERFLY VALVES, THE M.J. ADAPTER SHALL BE DESIGNED TO ALLOW THE BUTTERFLY VALVE TO OPEN AND CLOSE WITHOUT INTERFERENCE FROM THE INSIDE WALL OF THE POLYETHYLENE PIPE.

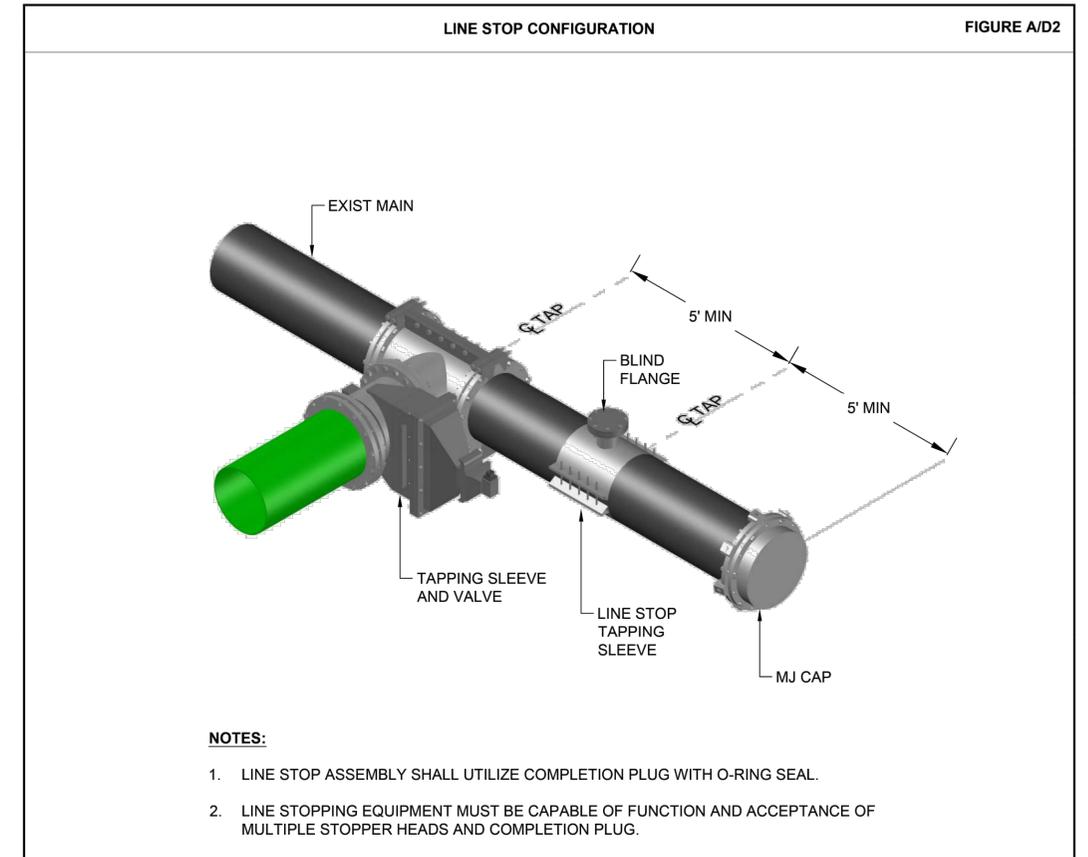
**HDPE/DUCTILE IRON**

**3**  
D-8 **MECHANICAL JOINT ADAPTER**  
N.T.S.



- NOTES:**
1. MATCH EXISTING SIDEWALK WIDTH
  2. CONTROL JOINTS TO BE SAWN AT 5' O.C. JOINTS TO BE SAWN BETWEEN 4 HOURS AND 8 HOURS AFTER INITIAL SET OF CONCRETE.
  3. EXPANSION JOINTS TO BE CONSTRUCTED 15' O.C. WITH CONTINUOUS KEYWAY.
  4. USE 1/2" EXPANSION JOINT WHERE SLAB IS ADJACENT TO BUILDINGS AND 60' O.C. GRID.
  5. AT SIDEWALK REPLACEMENTS ON STREET CORNERS, INSTALL DETECTABLE WARNING SURFACES PER FDOT SPECIFICATIONS SECTION 527 AND FDOT STANDARD INDEX 304.

**1**  
D-8 **SIDEWALK DETAIL**  
N.T.S.



**NOTES:**

1. LINE STOP ASSEMBLY SHALL UTILIZE COMPLETION PLUG WITH O-RING SEAL.
2. LINE STOPPING EQUIPMENT MUST BE CAPABLE OF FUNCTION AND ACCEPTANCE OF MULTIPLE STOPPER HEADS AND COMPLETION PLUG.

No.	REVISIONS	BY	DATE

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SCALE: AS NOTED

**ORANGE COUNTY UTILITIES**  
9150 CURRY FORD ROAD  
ORLANDO, FLORIDA 32825

**BFA**

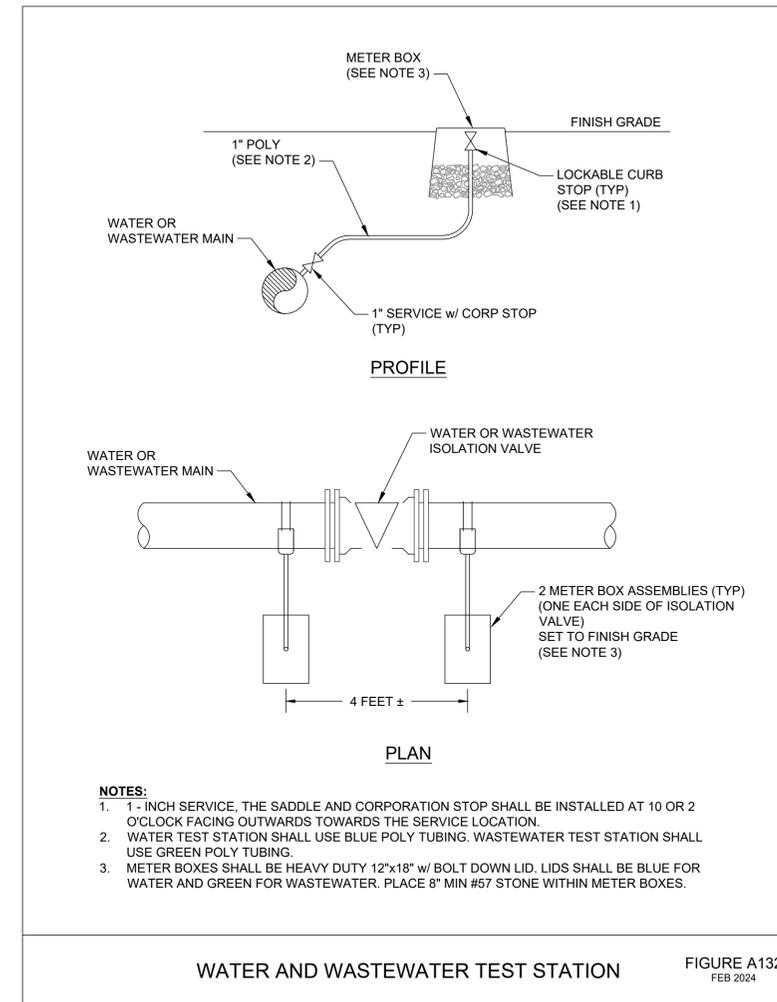
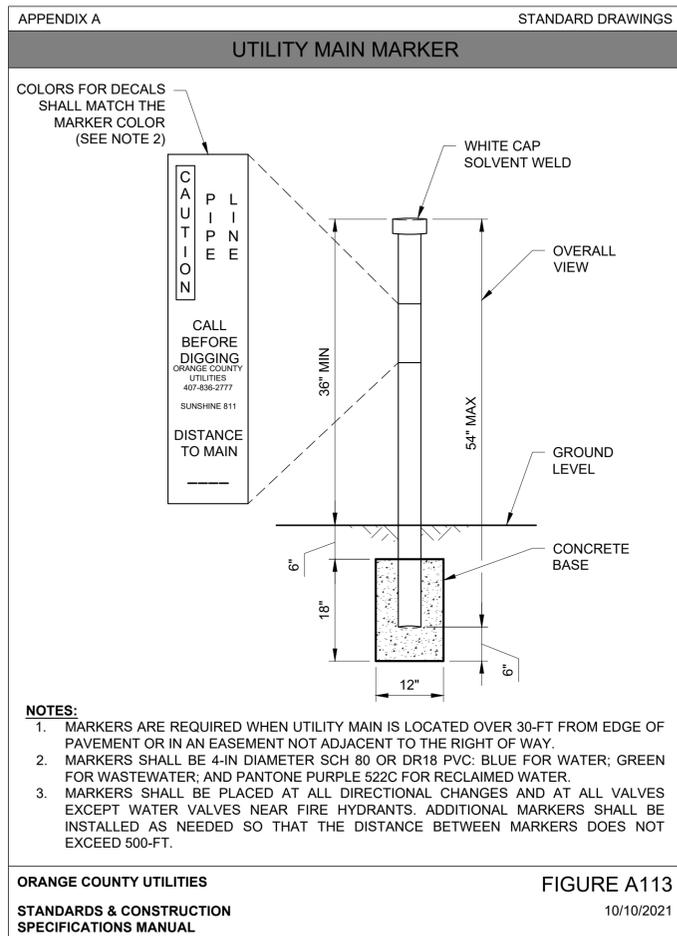
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1230 HILLCREST ST., STE 100  
ORLANDO, FL 32803  
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ENGINEERING REGISTRY NO. 6899

ORANGEWOOD BOULEVARD AERIAL PIPE CROSSING REPLACEMENTS  
**CONSTRUCTION DETAILS**

DESIGN ENGINEER  
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FLORIDA REGISTRATION No.  
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**D-103**  
SHEET  
16 OF 17



No.	REVISIONS	BY	DATE

THIS LINE REPRESENTS  
1 INCH OF DRAWING SCALE

REPRODUCTION MAY HAVE  
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SCALE: AS NOTED



ORANGE COUNTY UTILITIES  
9150 CURRY FORD ROAD  
ORLANDO, FLORIDA 32825



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ORANGEWOOD BOULEVARD AERIAL PIPE CROSSING REPLACEMENTS

CONSTRUCTION DETAILS

DESIGN ENGINEER  
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FLORIDA REGISTRATION No.  
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DRAWING No.  
D-104  
SHEET  
17 OF 17

VALVE															
ID NUMBER	PLAN SHEET #	EASTING	NORTHING	ELEVATION	VALVE TYPE	MAIN TYPE	VALVE SIZE	VALVE MFR	VALVE MODEL #	# OF TURNS TO CLOSE	GEAR ACTUATOR	GEAR RATIO	SIDE ACTUATOR	ACTUATOR MFR	COMMENTS
U101-TSV1	U-101				TAPPING SLEEVE	WATER MAIN	10"								
U101-TSV2	U-101				TAPPING SLEEVE	WATER MAIN	10"								
U101-TSV3	U-101				TAPPING SLEEVE	FORCE MAIN	10"								
U101-TSV4	U-101				TAPPING SLEEVE	FORCE MAIN	10"								
U101-PV1	U-101				PLUG VALVE	FORCE MAIN	12"								
U101-PV2	U-101				PLUG VALVE	FORCE MAIN	12"								
U101-PV3	U-101				PLUG VALVE	FORCE MAIN	12"								
U101-PV4	U-101				PLUG VALVE	FORCE MAIN	12"								
U101-LS1	U-101				LINE STOP	WATER MAIN	10"								
U101-LS2	U-101				LINE STOP	FORCE MAIN	10"								
U101-LS3	U-101				LINE STOP	WATER MAIN	10"								
U101-LS4	U-101				LINE STOP	FORCE MAIN	10"								
U101-ARV1	U-101				OFFSET ARV	WATER MAIN	2"								
U101-ARV2	U-101				OFFSET ARV	FORCE MAIN	2"								

FITTING							
ID NUMBER	PLAN SHEET #	EASTING	NORTHING	ELEVATION	MAIN TYPE	FITTING TYPE	COMMENTS
U101-F1	U-101				WATER MAIN	12" 45° BEND	
U101-F2	U-101				WATER MAIN	12" 45° BEND	
U101-F3	U-101				WATER MAIN	12"x10" RED	
U101-F4	U-101				WATER MAIN	12"x10" RED	
U101-F5	U-101				WATER MAIN	12" HDPE/MJ ADPT	
U101-F6	U-101				FORCE MAIN	12"x4" TEE	
U101-F7	U-101				FORCE MAIN	12" 45° BEND	
U101-F8	U-101				FORCE MAIN	12" 45° BEND	
U101-F9	U-101				FORCE MAIN	12" 45° BEND	
U101-F10	U-101				FORCE MAIN	12" 45° BEND	
U101-F11	U-101				FORCE MAIN	12" 11.25° BEND	
U101-F12	U-101				FORCE MAIN	12" HDPE/MJ ADPT	
U101-F13	U-101				FORCE MAIN	12"x10" RED	
U101-F14	U-101				FORCE MAIN	12" 45° BEND	
U101-F15	U-101				FORCE MAIN	12" 45° BEND	
U101-F16	U-101				FORCE MAIN	12" 45° BEND	
U101-F17	U-101				FORCE MAIN	12" 45° BEND	
U101-F18	U-101				WATER MAIN	12" HDPE/MJ ADPT	
U101-F19	U-101				WATER MAIN	12" 11.25° BEND	
U101-F20	U-101				FORCE MAIN	12" HDPE/MJ ADPT	
U101-F21	U-101				FORCE MAIN	12" 11.25° BEND	
U101-F22	U-101				FORCE MAIN	12"x10" RED	
U101-F23	U-101				FORCE MAIN	12" 45° BEND	
U101-F24	U-101				FORCE MAIN	12" 45° BEND	
U101-F25	U-101				WATER MAIN	12"x10" RED	
U101-F26	U-101				WATER MAIN	12" 45° BEND	
U101-F27	U-101				WATER MAIN	12" 45° BEND	
U101-F28	U-101				WATER MAIN	10" CAP	
U101-F29	U-101				FORCE MAIN	10" CAP	
U101-F30	U-101				WATER MAIN	10" CAP	
U101-F31	U-101				FORCE MAIN	10" CAP	
U101-F32	U-101				FORCE MAIN	12"x10" RED	

No.	REVISIONS	BY	DATE

LINE IS 1 INCH  
AT FULL SIZE = 11X17  
(IF NOT SCALE ACCORDINGLY)  
SCALE: AS NOTED

**ORANGE COUNTY UTILITIES**  
9150 CURRY FORD ROAD  
ORLANDO, FLORIDA 32825



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ENGINEERING REGISTRY NO. 6899

ORANGWOOD BLVD AERIAL PIPE CROSSING REPLACEMENTS  
**AS-BUILT ASSET ATTRIBUTE TABLES**

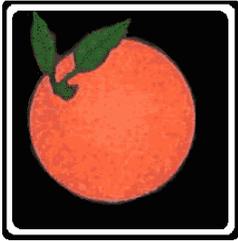
DESIGN ENGINEER  
CYNTHIA KNOX MALONE, P.E.  
FLORIDA REGISTRATION No. 58685

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DRAWING No. **X-100**  
SHEET 18 OF 17

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

# SECTION B



**VALENCIA WATER CONTROL DISTRICT**  
**219 E. LIVINGSTON STREET, ORLANDO, FL 32801**  
**PHONE: 407-841-5524 X 101 - FAX: 407-839-1526**

March 5, 2024

S. John Young Pkwy, LLC  
Attn: David Alvarez Aserraf, Manager  
7345 W. Sand Lake Road, Suite 216  
Orlando, FL 32819

Subject: Permit #0532

Dear Mr. Aserraf:

S. John Young Pkwy, LLC is hereby granted a construction permit related to the commercial building project. Approval is granted in accordance with approved plans and hydraulic calculations and the following **GENERAL AND SPECIFIC CONDITIONS:**

**GENERAL CONDITIONS:**

1. That the District or their agents may at any time make such inspections as they may deem necessary to ensure that the construction or work is performed in accordance with the conditions of this permit.
2. That the permittee will maintain the work authorized herein during construction and thereafter in good condition in accordance with the approved plans.
3. That the permittee shall comply promptly with any lawful regulations, conditions, or instructions affecting the structure or work authorized herein if and when issued by the U.S. Environmental Protection Agency, the South Florida Water Management District and the Florida Department of Environmental Protection and/or any county or city environmental protection agency having jurisdiction to abate or prevent water pollution, including thermal or radiation pollution. Such regulations, conditions, or instructions in effect or hereafter prescribed by the federal, state, county and city agencies have hereby made a condition of this permit.
4. It is understood and agreed that the rights and privileges herein set out are granted only to the extent of the District's right, title and interest in the land to be entered upon and used by the permittee, and the permittee will at all times, assume all risk and indemnify, defend and save harmless Valencia Water Control District from and against any and all loss, damage, cost or expense arising in any manner on account of the exercise or attempted exercises by the permittee of the aforesaid rights and privileges.

5. The permittee and/or their agents will use every measure to prevent the run-off of turbid water into the District's facilities including, but not limited to, the use of temporary ponds, silt barriers, chemical additives and temporary grassing during construction.
6. If discharge of water by permittee should at any time raise the level of pollutants in the District's water management facility to the point where the District is in violation of a statute or regulation, permittee will either: (a) immediately cease such discharge, (b) remove pollutants from the water before discharging into District facilities, and pay all costs which the District must incur in order to reduce pollution in the District's facilities to acceptable levels.
7. That all the provisions of this permit shall be binding on any assignee or successor in interest of the permittee.
8. That any modification, suspension or revocation of this permit shall not be the basis for a claim for damages against Valencia Water Control District.
9. The Valencia Water Control District agrees that the issuance of this permit allows the passage of water through their canals but in so doing does not assume any responsibility for damage to any persons or property.
10. That the engineer of record certify that the facilities as constructed comply with the submitted hydraulic calculations and approved drawings.
11. That the permittee agrees not to modify or alter the constructed facilities at any future time without the express consent of the District.
12. This permit is valid for 3 years from date of approval or runs concurrently with the SFWMD permit, if required, whichever expires first.
13. That this permit must be executed within 30 days of Board approval or must be brought back to the Board for reconsideration.

**END OF GENERAL CONDITIONS**

**SPECIFIC CONDITIONS**

1. That the Construction Plans, sheets C-1; C-2; C-3; C-3A; C-4; C-5; C-6; C-7; C-7A; C-8; C-9; C-10; C-11; C-12; L-1 and L-2 titled John Young Commercial Building 10263 S. John Young Pkwy Orlando, FL 32837 as recommended for approval by the District Engineer on March 5, 2024, become part of this permit.

**Attest:**

\_\_\_\_\_

**Signature:** \_\_\_\_\_

**S. John Young Pkwy, LLC**

**Title:** \_\_\_\_\_

**Attest:**

\_\_\_\_\_

**Granted by:**

**Valencia Water Control District**

**By:** \_\_\_\_\_

**Roy Miller, President**

**On this \_\_\_\_ day of \_\_\_\_\_, 2024**



1117 East Robinson St.  
Orlando, FL 32801  
Phone: 407.425.0452  
Fax: 407.648.1036

March 5, 2024

Board of Directors  
Valencia Water Control District  
219 E. Livingston Street  
Orlando, Florida 32801

RE: 16023 S. John Young Parkway – Commercial Building  
VWCD Permit No. 532  
CPH Project No. 6816.07

Dear Honorable Board Members:

We have completed our review of the above referenced project submitted by David Alvarez Asseraf, Manager (plans submitted by Florida Engineering Group). This project consists of a proposed drainage plan and a stormwater collection system which ties into the existing collection system from the first phase of development. Based on our review we have no objection to the Board approving this permit.

Sincerely,

**CPH, LLC**

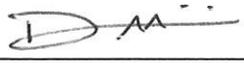
A handwritten signature in blue ink, appearing to read 'D. Mahler', with a long horizontal flourish extending to the right.

David E. Mahler, P.E.  
District Engineer

Cc: Mr. David Alvarez Aseraff, Manager

Permit No. \_\_\_\_\_  
(Assigned by V.W.C.D.)

**PERMIT APPLICATION**  
**Valencia Water Control District**  
**10365 Orangewood Blvd.**  
**Orlando, FL 32821**  
**(407) 355-5741**

- (1) **PROPOSED USE:** The proposed construction of John Young Commercial Building for a 30,000 S.F. building consisting of approximately 12,500 S.F. commercial showroom and 17,500 S.F. warehouse with related site improvements. The proposed project consists of modifying the existing permit covered under SFWMD 48-00718-S-10, Application No. 060201-19 (a.k.a. Bee-Line Center) to accommodate the proposed improvements, which were previously permitted as part of the master drainage system for the Grande Lakes Resort. The proposed project site is in the northern portion of the drainage basin covered by SFWMD permit for the Bee-Line Center project and is consistent with the previously issued permit.
- (2) **LOCATION OF WORK:** Block: 01 Lot: 001 Subdivision: 3051  
Or Section: 09 Township: 24 Range: 29th
- (3) **DISTRICT WORKS INVOLVED:** Stormwater discharging from previously approved master drainage system to Valencia Water Control District C-11.
- (4) **OWNER OF PROPOSED WORK OR STRUCTURE:** Phone #: 321-663-7276  
Name: David Alvarez Aserraf, S. John Young Pkwy, LLC Title Manager  
Address: 7345 W. Sand Lake Rd., Suite 216 Orlando, FL 32819  
(Street) (City) (State) (Zip)
- (5) **APPLICATION OTHER THAN OWNER: (if any)** Phone #: 407-645-5575  
Name: David Alvarez Aserraf, S. John Young Pkwy, LLC Serving as: Manager  
Address: 7345 W. Sand Lake Rd., Suite 216 Orlando, FL 32819  
(Street) (City) (State) (Zip)
- (6) **AREA PROPOSED TO BE SERVED:** Give legal description and size in acres. Attach legal description if necessary. If land is platted, indicate Block, Lot and Subdivision. \_\_\_\_\_  
Please see attached.
- (7) **CONSTRUCTION SCHEDULE:** The proposed work, if permitted, will begin within 90 days Calendar days of permit approval and be completed within 240 calendar days thereafter.
- (8) This application, including sketches, drawings or plans and specifications attached contains a full and complete description of the work proposed or use desired of the above described facilities of the District and for which permit is herewith applied. It shall be a part of any permit that may be issued. It is agreed that all work or the use of the District's facilities will be in accordance with the permit to be granted.
- Submitted this 23 day of FEBRUARY, 2024.
- Signature of Property Owner (Officer of Corporation): 
- Print Name of Property Owner (Officer): David Alvarez Aserraf, Manager

# CONSTRUCTION PLANS

## JOHN YOUNG COMMERCIAL BUILDING

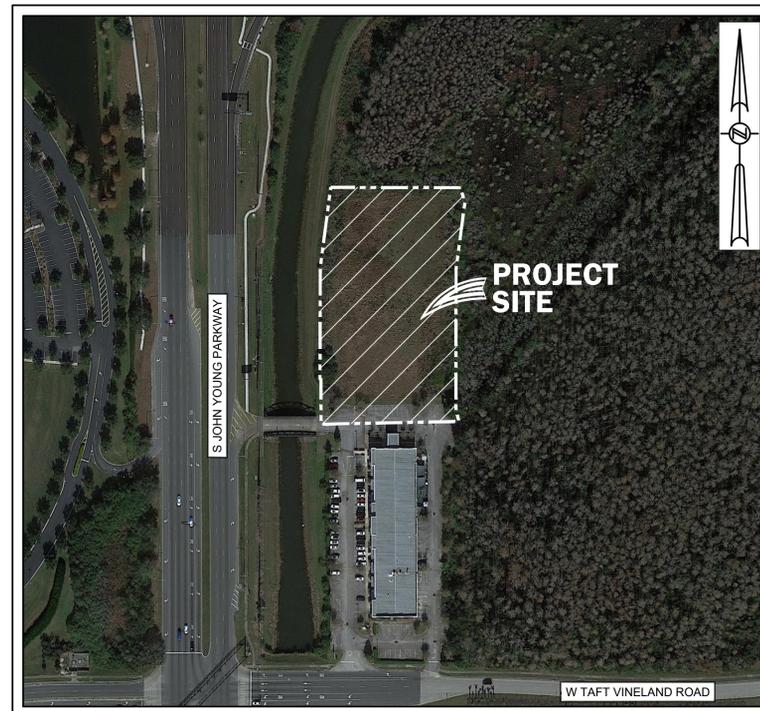
### 10263 S. JOHN YOUNG PKWY

### ORLANDO, FL 32837

CDR-23-06-178

PARCEL I.D. No. 09-24-29-3051-01-001

#### SITE VICINITY MAP



NOT TO SCALE

ALL ELEVATIONS SHOWN ON THIS PLAN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

**OWNER: S JOHN YOUNG PKWY, LLC**  
**7345 W SAND LAKE RD STE 216**  
**ORLANDO, FLORIDA 32819**  
**PHONE: (321) 663-7276**

**ARCHITECT: MORENO ORAMA ARCHITECTURE, INC.**  
**3012 AMBER OAK DR**  
**VALRICO, FLORIDA 33594**  
**PHONE: (813) 381-3382**

**SURVEYOR: IRELAND & ASSOCIATES SURVEYING, INC.**  
**800 CURRENCY CIRCLE SUITE 1020**  
**LAKE MARY, FLORIDA 32746**  
**PHONE: (407) 678 - 3366**  
**FAX: (407) 320 - 8165**

#### LEGAL DESCRIPTION

ACREAGE: 2.48 ACRES

A PORTION OF LOT 1, GRANDE LAKES NE QUADRANT, AS RECORDED IN PLAT BOOK 66, PAGE 16 OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA. BEING DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHWEST CORNER OF LOT 1, GRANDE LAKES NE QUADRANT, AS RECORDED IN PLAT BOOK 66, PAGE 16 OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA; THENCE N 00°07'16" W, ALONG THE WEST LINE OF SAID LOT 1, A DISTANCE OF 434.82 FEET FOR THE POINT OF BEGINNING;

THENCE CONTINUE THE FOLLOWING COURSES AND DISTANCES ALONG THE WEST LINE OF SAID LOT 1; THENCE N 00°07'16" W, 84 FEET; THENCE S 44°59'48" W, 2.85 FEET; THENCE N 00°03'29" W, 207.40 FEET; THENCE N 07°28'23" E, 148.46 FEET TO THE NORTH LINE OF SAID LOT 1; THENCE N 90°00'00" E, ALONG SAID NORTH LINE, 240.56 FEET, TO THE EAST LINE OF SAID LOT 1; THENCE CONTINUE THE FOLLOWING COURSES AND DISTANCES ALONG THE EAST LINE OF SAID LOT 1; THENCE S 15°35'31" E, 29.32 FEET; THENCE S 07°28'23" W, 122.62 FEET; THENCE S 00°07'16" E, 260.45 FEET; THENCE S 15°03'40" E, 24.45 FEET; THENCE S 88°40'29" W, DEPARTING SAID EAST LINE, 255.59 FEET TO THE POINT OF BEGINNING.

#### PLAN INDEX

- C-1 COVER SHEET
- C-2 BOUNDARY SURVEY
- C-3 LEGEND, NOTES, AND SPECIFICATIONS
- C-3A BCC CONDITIONS OF APPROVAL** ⚠
- C-4 SITE DEMOLITION AND STORMWATER POLLUTION PREVENTION PLAN
- C-5 SITE GEOMETRY PLAN
- C-6 SITE PAVING, GRADING, AND DRAINAGE PLAN
- C-7 SITE UTILITY PLAN
- C-7A OVERALL UTILITY AS-BUILT PLAN** ⚠
- C-8 SITE CROSS SECTIONS
- C-9 SITE CONSTRUCTION DETAILS
- C-10 ORANGE COUNTY UTILITY DETAILS (1 OF 2)
- C-11 ORANGE COUNTY UTILITY DETAILS (2 OF 2)
- C-12 ORANGE COUNTY FIRETRUCK - VEHICLE TRACKING PLAN
- L-1 SITE LANDSCAPE PLAN
- L-2 SITE IRRIGATION PLAN

#### UTILITY COMPANIES

<b>WATER:</b>	<b>(407) 254 - 9900</b>	<b>ORANGE COUNTY UTILITIES</b>
<b>SEWER:</b>	<b>(407) 254 - 9900</b>	<b>ORANGE COUNTY UTILITIES</b>
<b>ELECTRIC:</b>	<b>(407) 629 - 1010</b>	<b>DUKE ENERGY</b>
<b>TELEPHONE:</b>	<b>(561) 683 - 2729</b>	<b>AT&amp;T / DISTRIBUTION</b>
<b>CABLE:</b>	<b>(407) 532 - 8520</b>	<b>CHARTER COMMUNICATIONS</b>
<b>GAS:</b>	<b>(813) 275 - 3783</b>	<b>TECO PEOPLES GAS - ORLANDO</b>



Engineering the Future

5127 S. Orange Avenue, Suite 200  
 Orlando, FL 32809  
 Phone: 407-895-0324  
 Fax: 407-895-0325

www.feg-inc.us



THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY:  
 SAM J. SEBALLI, P.E.  
 ON February 14, 2024 USING A DIGITAL SIGNATURE.  
 PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

SAM J. SEBALLI, P.E.  
 LICENSE NO. 42075

**Boundary Survey**

**Legal Description:**

A PORTION OF LOT 1, GRANDE LAKES NE QUADRANT, AS RECORDED IN PLAT BOOK 66, PAGE 16 OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, BEING DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHWEST CORNER OF LOT 1, GRANDE LAKES NE QUADRANT, AS RECORDED IN PLAT BOOK 66, PAGE 16 OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA; THENCE N 0°07'16" W, ALONG THE WEST LINE OF SAID LOT 1, A DISTANCE OF 434.82 FEET FOR THE POINT OF BEGINNING;

THENCE CONTINUE THE FOLLOWING COURSES AND DISTANCES ALONG THE WEST LINE OF SAID LOT 1; THENCE N 0°07'16" W, 94 FEET; THENCE S 44°59'48" W, 2.85 FEET; THENCE N 0°03'29" W, 207.40 FEET; THENCE N 07°28'23" E, 148.48 FEET TO THE NORTH LINE OF SAID LOT 1; THENCE N 90°00'00" E, ALONG SAID NORTH LINE, 240.56 FEET; TO THE EAST LINE OF SAID LOT 1; THENCE CONTINUE THE FOLLOWING COURSES AND DISTANCES ALONG THE EAST LINE OF SAID LOT 1; THENCE S 15°35'31" E, 29.32 FEET; THENCE S 07°28'23" W, 122.62 FEET; THENCE S 0°07'16" E, 260.45 FEET; THENCE S 15°03'40" E, 24.45 FEET; THENCE S 88°40'29" W, DEPARTING SAID EAST LINE, 255.59 FEET TO THE POINT OF BEGINNING.

**Flood Disclaimer:**  
BY PERFORMING A SEARCH WITH THE LOCAL GOVERNING MUNICIPALITY OR WWW.FEMA.GOV, THE PROPERTY APPEARS TO BE LOCATED IN ZONE AE (WITH A BASE FLOOD ELEVATION OF 82). THIS PROPERTY WAS FOUND IN ORANGE COUNTY, COMMUNITY NUMBER 12095C, DATED 09/25/2009.

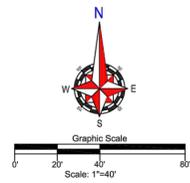
CERTIFIED TO:  
BEELINE CENTER LLC; SHAMOUN DESIGN

- L1  
N 44°59'48" E 2.85'(P)  
S 43°04'09" W 02.77'(M)
- L2  
S 15°03'40" E 20.93'(P)  
S 15°04'31" E 21.41'(M)
- L3  
S 15°03'40" E(P) 15.00'(D)  
S 19°56'25" E 14.41'(M)

**-Site Benchmark Information-**

- #1  
Set Nail & Disk "L.B. 7623"  
Elevation: 85.42'
- #2  
Orange County Benchmark "S135502"  
Elevation: 85.46'

**-Benchmark Information-**  
Orange County Benchmark Datum  
Benchmark No: S135502  
Benchmark Elevation: 85.463'  
(Elevations are based upon NAVD 88 Datum)



(Various Width Of Right-of-Way)  
Known As: **South John Young Parkway**  
Platted As: **John Young Parkway**  
(Asphalt Road)

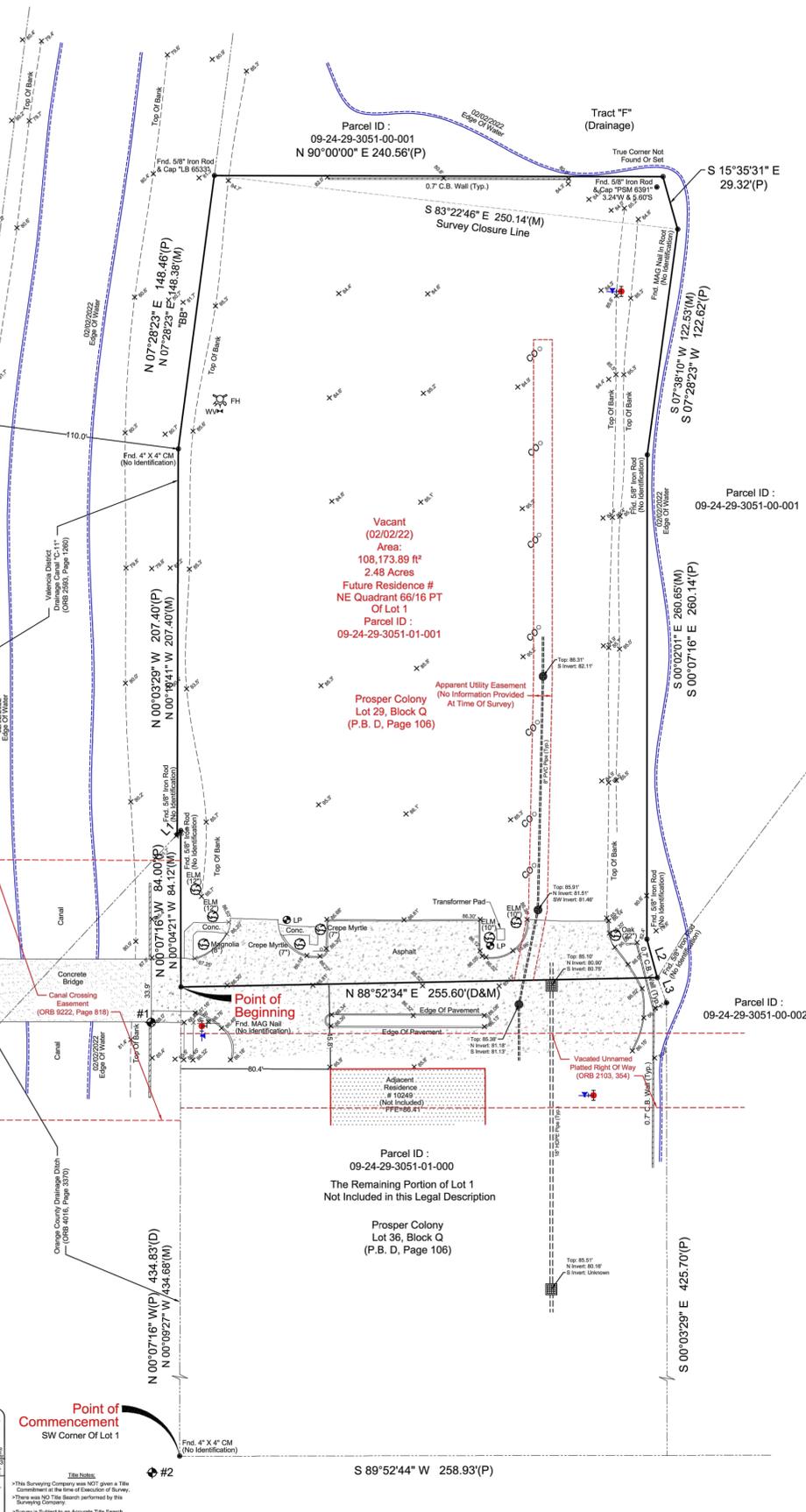
**-Legend-**

- |  |                              |
|--|------------------------------|
| ● BOLLARD                                      | ● FDOT Storm Manhole         |
| ○ Calculated                                   | ● FIRE DEPARTMENT CONNECTION |
| ○ Centerline                                   | ● FIBER OPTIC CABLE          |
| CB Concrete Block                              | ● FIBER OPTIC CABLE BOX      |
| CM Concrete Monument                           | ● Fire Hydrant               |
| Conc. Concrete                                 | ● GUY ANCHOR                 |
| D Description                                  | ● HANDICAP PARKING           |
| DE Drains Easement                             | ● HANDICAP RAMP              |
| Easmt. Easement                                | ● Gas Meter                  |
| F.E.M.A. - Federal Emergency Management Agency | ● Gas Valve                  |
| F.F.E. - Finished Floor Elevation              | ● Grease Trap                |
| Frnd. - Found                                  | ● Concrete Light Pole        |
| IP Iron Pipe                                   | ● Milled End Section         |
| L Length (Arc)                                 | ● SIGN                       |
| M Measured                                     | ● PARKING SPACES             |
| N&D - Nail & Disk                              | ● Concrete Power Pole        |
| N.R. - Non-Radial                              | ● Storm Manhole              |
| ORB - Official Records Book                    | ● TELEPHONE BOX              |
| P Plat Book                                    | ● TELEPHONE RISER            |
| Plat - Wood Fence                              | ● TRAFFIC LIGHT POLE         |
| Point of Curvature                             | ● TRAFFIC SIGNAL BOX         |
| Point of Beginning                             | ● Transformer                |
| Point of Intersection                          | ● Gas Valve                  |
| P.O.L. - Pole on Line                          | ● Water Valve                |
| PP - Piped Pole                                | ● Water Meter                |
| PRM - Permanent Reference Monument             | ● STORM JUNCTION BOX         |
| PT - Point of Tangency                         |                              |
| R - Radius                                     |                              |
| Rad. - Radial                                  |                              |
| R&C - Rebar & Cap                              |                              |
| R.D. - Roaded Dot                              |                              |
| Rec. - Recovered                               |                              |
| RSL - Roaded                                   |                              |
| Set. - Set 1/2" Rebar & Cap "L.B. 7623"        |                              |
| SP - Screened Porch                            |                              |
| Typ. - Typical                                 |                              |
| UE - Utility Easement                          |                              |
| Δ - Delta (Central Angle)                      |                              |
| ✓ - Chain Link Fence                           |                              |
| → - Back Flow Preventer                        |                              |
| CB - Concrete Block                            |                              |
| Cable Reel                                     |                              |
| Cleanout                                       |                              |
| Crosswalk Post                                 |                              |
| Curb Inlet                                     |                              |
| DOT INLET                                      |                              |
| DP - Dumpster Pad                              |                              |
| ELECTRIC BOX                                   |                              |
| ELECTRIC METER                                 |                              |
| Well   |                              |

- |                      |                              |
|----------------------|------------------------------|
| ● FDOT Storm Manhole | ● FIRE DEPARTMENT CONNECTION |
| ● FIBER OPTIC CABLE  | ● FIBER OPTIC CABLE BOX      |
| ● Fire Hydrant       | ● GUY ANCHOR                 |
| ● HANDICAP PARKING   | ● HANDICAP RAMP              |
| ● Gas Meter          | ● Gas Valve                  |
| ● Grease Trap        | ● Concrete Light Pole        |
| ● Milled End Section | ● SIGN                       |
| ● PARKING SPACES     | ● Concrete Power Pole        |
| ● Storm Manhole      | ● TELEPHONE BOX              |
| ● TELEPHONE RISER    | ● TRAFFIC LIGHT POLE         |
| ● TRAFFIC SIGNAL BOX | ● Transformer                |
| ● Gas Valve          | ● Water Valve                |
| ● Water Meter        | ● STORM JUNCTION BOX         |

Plan Date: 02/02/22	Date Completed: 03/10/22
Drawn By: JW	File Number: SS 202208
Legend	Point of Curvature
Point of Beginning	Point of Intersection
Point of Tangency	Point of Curvature
Point of Beginning	Point of Intersection
Point of Tangency	Point of Curvature
Point of Beginning	Point of Intersection
Point of Tangency	Point of Curvature
Point of Beginning	Point of Intersection
Point of Tangency	Point of Curvature
Point of Beginning	Point of Intersection
Point of Tangency	Point of Curvature

**Point of Commencement**  
SW Corner of Lot 1



F.E.G. PROJECT NO.	23-022
SHEET NO.	C-2
SHEET	2 OF 16

GENERAL NOTES:

- 1. THESE GENERAL NOTES APPLY TO ALL WORK IN THIS SET OF DRAWINGS.
2. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR(S) TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND ARE IN HAND AT THE JOB SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
3. THE SPECIFICATIONS, NOTES, AND PLANS CALL ATTENTION TO CERTAIN REQUIRED FEATURES OF THE CONSTRUCTION BUT DO NOT PURPORT TO COVER ALL DETAILS OF DESIGN AND CONSTRUCTION.
4. ALL EQUIPMENT SHALL BE HANDLED, STORED, INSTALLED, TESTED, AND OPERATED IN STRICT ACCORDANCE WITH THE APPLICABLE MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. ALL WORK SHALL BE ACCOMPLISHED TO THE HIGHEST QUALITY CRAFTSMANSHIP STANDARDS AS APPROVED BY THE ENGINEER.
6. ALL WORK SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, ORDINANCES AND REGULATIONS.
7. APPARENT ERRORS, DISCREPANCIES, OR OMISSIONS ON THE DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION BEFORE BIDDING.
8. AFTER COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PERFORM SITE CLEAN-UP OPERATIONS FOR REMOVAL OF ALL TRASH, DEBRIS, EXCESS MATERIAL, AND EQUIPMENT.
9. THE CONTRACTOR SHALL COMPLY WITH ALL RULES, REGULATIONS, AND SPECIFICATIONS OF ORANGE COUNTY FOR SITE IMPROVEMENT IN THE ABSENCE OF A PARTICULAR REQUIREMENT.
10. FLORIDA LAW (F.S. 553.851) PROTECTION OF UNDERGROUND PIPELINES MANDATES THAT "NO EXCAVATOR SHALL COMMENCE OR PERFORM ANY EXCAVATION IN ANY PUBLIC OR PRIVATE STREET, ALLEY, OR RIGHT-OF-WAY DEDICATED TO THE PUBLIC USE, OR GAS UTILITY EASEMENT WITHOUT FIRST OBTAINING INFORMATION CONCERNING THE POSSIBLE LOCATION OF GAS PIPELINES IN THE AREA OF THE PROPOSED EXCAVATION."
11. CONTRACTOR SHALL NOTIFY ALL APPROPRIATE UTILITY COMPANIES OF PROPOSED START OF WORK IN ACCORDANCE WITH THEIR STANDARD REQUIREMENTS; INCLUDING BUT NOT LIMITED TO WATER, SEWER, POWER, TELEPHONE, GAS, AND CABLE TV COMPANIES.
12. ANY DIFFERING SITE CONDITIONS FROM THAT WHICH IS REPRESENTED HEREON, WHETHER ABOVE, ON, OR BELOW THE SURFACE OF THE GROUND, SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND OWNER IN WRITING.
13. THE CONTRACTOR SHALL FURNISH OWNER WITH ACCURATE RECORD DRAWINGS PREPARED BY A LICENSED PROFESSIONAL SURVEYOR SHOWING AS-CONSTRUCTED HORIZONTAL AND VERTICAL DIMENSIONING OF THE WORK.
14. ALL PRIVATE AND PUBLIC PROPERTIES AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTED UNLESS SPECIFICALLY EXEMPTED BY THE PLANS.
15. THE CONTRACTOR SHALL FOLLOW THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS IN PREPARING THE SITE FOR CONSTRUCTION; THIS INCLUDES REMOVAL OF ANY EXISTING ORGANIC SOILS, DELETERIOUS MATERIAL, VEGETATION, AND/OR DEBRIS FROM WITHIN THE LIMITS OF CONSTRUCTION AS IDENTIFIED BY THE GEOTECHNICAL ENGINEER.

GEOMETRY NOTES:

- 1. THESE PLANS ARE BASED ON A SURVEY PREPARED FOR THE OWNER BY IRELAND & ASSOCIATES SURVEYING, INC. AND DATED FEBRUARY 10, 2022.
2. REFER TO SHEET C-2 FOR REFERENCED BENCHMARK.
3. CONTRACTOR SHALL STAKE ALL IMPROVEMENTS USING THE GEOMETRIC DATA PROVIDED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COMPLETELY CHECK AND CORRECT ALL IMPROVEMENTS TO ENSURE ADEQUATE POSITIONING.
4. ALL DIMENSIONS ARE TO THE FACE OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
5. CONTRACTOR SHALL VERIFY THE ACCURACY OF THE BUILDING GEOMETRY SHOWN WITH THAT IN THE FINAL ARCHITECTURAL DRAWINGS, PRIOR TO STAKE-OUT, & SHALL NOTIFY OWNER & ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

MARKING, STRIPING, & SIGNAGE NOTES:

- 1. ALL MARKINGS MUST COMPLY WITH THE F.D.O.T. ROADWAY & TRAFFIC DESIGN STANDARDS, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND THE ORANGE COUNTY LAND DEVELOPMENT CODE.
2. HANDICAP PARKING SPACES SHALL BE PROPERLY SIGNED AND STRIPED IN ACCORDANCE WITH FLORIDA STATUTE 316, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND OTHER APPLICABLE STANDARDS.
3. HANDICAP SIGN SHALL BE F.D.O.T. SPECIFICATION FTP 20-06.

PAVING, GRADING, & DRAINAGE NOTES:

- 1. ALL CONSTRUCTION, INCLUDING SIDEWALKS, SHALL BE IN ACCORDANCE WITH ORANGE COUNTY CONSTRUCTION SPECIFICATIONS AND OTHER GENERAL AND SPECIAL SPECIFICATIONS.
2. SUBSURFACE INFORMATION PROVIDED WITH THESE DRAWINGS WAS OBTAINED FOR USE IN ESTABLISHING DESIGN CRITERIA FOR THE PROJECT.
3. THE LOCATIONS OF EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR.
4. ALL FILL MATERIAL IN GENERAL IMPROVEMENT AREAS SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE SOIL'S MODIFIED PROCTOR MAXIMUM DRY DENSITY.
5. ALL UNDERGROUND UTILITIES INCLUDING CONDUIT FOR ELECTRICAL, CABLE TV, AND TELEPHONE SHALL BE INSTALLED PRIOR TO PAVEMENT CONSTRUCTION.
6. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY PROBLEMS REQUIRING DEVIATION FROM THESE PLANS AND SPECIFICATIONS.
7. THE CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS OF ALL MAJOR ITEMS PROPOSED FOR THIS PROJECT TO THE ENGINEER PRIOR TO ORDERING ANY OF THE EQUIPMENT.
8. ALL DISTURBED AREAS MUST BE SODDED UNLESS OTHERWISE NOTED ON THE PLANS.
9. PROVIDE HANDICAP ACCESS WHERE SIDEWALKS MEET CURBS.

EROSION CONTROL NOTES:

- 1. ALL EROSION & SEDIMENT CONTROL WORK SHALL CONFORM WITH ORANGE COUNTY SPECIFICATIONS, SUBJECT TO AUTHORIZED & APPROVED VARIANCES, WAIVERS &/OR CONDITIONAL CHANGES.
2. EROSION & SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION.
3. CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN AT THE PRE-CONSTRUCTION MEETING.
4. ALL CLEARED AREAS FOR IMPROVEMENT &/OR CONSTRUCTION SHALL BE WATERED TO PREVENT WIND EROSION.
5. PRIOR TO LAND CLEARING THE CONTRACTOR SHALL PROVIDE TREE PROTECTION BARRIER TO MEET THE REQUIREMENTS OF ORANGE COUNTY.
6. THE CONTRACTOR SHALL SELECTIVELY CLEAR ONLY THE AREAS REQUIRED FOR CONSTRUCTION & STABILIZE ANY POTENTIAL EROSION AREAS IMMEDIATELY FOLLOWING COMPLETION OF CONSTRUCTION.

WATER & SEWER UTILITY NOTES:

- 1. CONTRACTOR SHALL COORDINATE WITH ORANGE COUNTY UTILITIES FOR CONSTRUCTION OF THE WATER AND SEWER SYSTEMS, RESPECTIVELY.
2. CONTRACTOR SHALL COORDINATE ALL WATER AND SEWER SYSTEM TEST SCHEDULING TO ALLOW ENGINEER'S ATTENDANCE AND PROVIDE FIVE (5) WORKING DAYS NOTICE OF WATER AND SEWER TESTS.
3. ENGINEER RESERVES THE RIGHT TO WITHHOLD APPROVAL FOR ANY PORTION OF THE WATER OR SEWER PIPE WORK WHICH HAS NOT BEEN TESTED (OBSERVED BY ENGINEER) AND REPORTED TO CONFORM TO PROJECT SPECIFICATIONS.
4. SITE CONTRACTOR SHALL COORDINATE AND VERIFY ALL UTILITY SERVICES WITH FINAL ARCHITECTURAL DRAWINGS AND BUILDING CONTRACTOR.
5. CONTRACTOR SHALL VERIFY SIZE AND TYPE OF EXISTING MAIN PRIOR TO ORDERING TAPPING MATERIALS FOR TIE-INS.
6. CONTRACTOR SHALL MAINTAIN A SET OF RECORD DRAWINGS MARKED UP WITH HORIZONTAL AND VERTICAL AS-BUILT INFORMATION ON LOCATION OF WATER MAINS, FITTINGS, AND WATER SERVICES LOCATED FROM CENTERLINE OF NEAREST FIRE HYDRANT OR NEAREST MANHOLE.
7. SITE UTILITY WORK SHALL TERMINATE 5 FEET FROM BUILDINGS UNLESS OTHERWISE STATED.
8. CONTRACTOR SHALL NOT ACTIVATE WATER SERVICE UNTIL THE FDEP HAS CLEARED THE SYSTEM FOR USE AND THE CLEARANCE LETTER HAS BEEN RECEIVED BY THE OWNER.
9. FOR SEWER SYSTEM TESTING REFER TO ESM SECTION 9.03.05 FOR THE REQUIREMENTS OF PERFORMING CCTV INSPECTIONS OF THE SEWER BEFORE THE CITY CAN ACCEPT THE SEWER.

F.D.E.P. CONSTRUCTION NOTES:

- UTILITY SEPARATION - VERTICAL CLEARANCE:
1. NEW OR RELOCATED, UNDERGROUND WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL CROSS ANY EXISTING OR PROPOSED GRAVITY-OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE OTHER PIPELINE OR AT LEAST 12" BELOW THE OTHER PIPELINE AND NEW OR RELOCATED, UNDERGROUND WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL CROSS ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OTHER PIPELINE.
2. AT THE UTILITY CROSSINGS DESCRIBED ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE OR THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY-OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
UTILITY SEPARATION HORIZONTAL SEPARATION:
1. NEW OR RELOCATED, UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER, STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER (OR A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER IF THE BOTTOM OF THE WATER MAIN WILL BE LAID AT LEAST (6") SIX INCHES ABOVE THE TOP OF THE SEWER); A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; AND A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM."
2. THE CONTRACTOR SHALL PERFORM HYDROSTATIC TESTING OF ALL NEWLY-INSTALLED WATER DISTRIBUTION SYSTEM IN ACCORDANCE WITH THE ORANGE COUNTY UTILITIES & IN ACCORDANCE WITH AWWA STANDARD C600 FOR DUCTILE-IRON PIPE. TESTING SHALL BE IN ACCORDANCE WITH AWWA MANUAL M23 FOR PVC PIPE.
3. THE CONTRACTOR SHALL DISINFECT ALL SECTIONS OF THE WATER DISTRIBUTION SYSTEM IN ACCORDANCE WITH THE F.D.E.P. WATER PERMIT, & RECEIVE APPROVAL THEREOF FROM THE LOCAL UTILITY ENGINEER OF RECORD, & F.D.E.P., PRIOR TO PLACING IN SERVICE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF THE F.D.E.P. WATER & SEWER PERMITS FROM THE PERMITS FROM THE OWNER & MAINTAIN THEM ON THE JOB SITE AT ALL TIMES. DISINFECTION OF THE WATER DISTRIBUTION SYSTEM SHALL BE PERFORMED IN ACCORDANCE WITH AWWA 651 "DISINFECTING WATER MAINS". SHALL BE PERFORMED IN ACCORDANCE WITH AWWA 651 "DISINFECTING WATER MAINS".

CONSTRUCTION NOTES:

- 1. THE PERMITTEE SHALL BE SEPARATELY RESPONSIBLE FOR APPROPRIATE CONSTRUCTION, DISINFECTION & TESTING BEYOND THE METER TO ASSURE POTABILITY AT THE POINT OF USE.
2. POTABLE WATER PIPES WILL BE DISINFECTED IN ACCORDANCE WITH AWWA SPECIFICATIONS C651.
3. POTABLE PIPES WILL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH SPECIFICATION NUMBERS C600 & C605/M23 FOR DUCTILE IRON & PVC PIPES, RESPECTIVELY.
A. POTABLE WATER PIPES MUST BE MANUFACTURED IN ACCORDANCE WITH THE FOLLOWING AWWA SPECIFICATIONS:
B. DUCTILE IRON PIPE (3" TO 64") - AWWA C150/AWWA C151; LINING PER AWWA C104, COATING PER AWWA C116, ENCASEMENT PER AWWA C105, FLANGED PIPE PER AWWA C115, GASKET JOINTS PER AWWA C111 AND FITTINGS PER AWWA C110 OR AWWA C153.
C. PVC (WITH NATIONAL SANITATION FOUNDATION SEAL)
1. AWWA C900/ASTM 1784 (4" TO 12") WITH DR25 MINIMUM;
2. AWWA C905 (14" TO 48")
3. PRESSURE RATED PIPE (SDR SERIES) SHALL BE ASTM D2241, SCHEDULE 40, 80, & 120 PVC PIPES PER ASTM D1785. THE COMPOUNDS USED FOR EITHER OF THESE TYPES SHALL BE PER ASTM D1784.
D. POLYETHYLENE PIPE (1/2" - 3") - AWWA C901 WITH VALVES & FITTINGS (AWWA C800);
E. POLYETHYLENE PIPE (4" - 63") - AWWA C906.
F. FIRE HYDRANTS & VALVES PER AWWA SERIES C500 THROUGH C560.
G. METERS PER AWWA SERIES C700 THROUGH C710.
H. NON-AWWA PVC PIPES (ALLOWED ONLY FOR SIZES LESS THAN 4 INCHES) MUST HAVE A MINIMUM PRESSURE CLASS OF 200 PSI AND MUST BEAR THE NSF MARK ON EACH INSTALLED LENGTH.

CONNECTION TO EXISTING WATER MAINS:

- 1. IF CONNECTION OF THE PROPOSED ACTIVITY TO THE WATER MAIN WILL RESULT IN DEPRESSURIZATION OF THE EXISTING SYSTEM BELOW 20 POUNDS PER SQUARE INCH, ONE OF THE FOLLOWING MUST OCCUR:
A. PRECAUTIONARY BOIL WATER NOTICES MUST BE ISSUED IN CASES OF PLANNED DISTRIBUTION INTERRUPTIONS, WHICH DEEMED AN IMMINENT PUBLIC HEALTH THREAT BY THE D.E.P. CENTRAL DISTRICT OR WILL AFFECT BACTERIOLOGICAL QUALITY OF THE DRINKING WATER UNLESS THE PUBLIC WATER SYSTEM CAN DEMONSTRATE, BY SOUND ENGINEERING JUDGMENT, THAT THE INTEGRITY OF THE WATER QUALITY ARE EXPECTED TO OCCUR & NOT DEEMED AN IMMINENT PUBLIC HEALTH RISK.
B. IN CASES OF BRIEF INTERRUPTION IN SERVICE, ADVISORIES (NOT BOIL WATER NOTICES) SHOULD BE ISSUED IF TEMPORARY CHANGES IN WATER QUALITY ARE EXPECTED TO OCCUR & NOT DEEMED AN IMMINENT PUBLIC HEALTH RISK.

FILLING OF WATERMANS:

- 1. FILLING OF PROPOSED WATER MAINS FROM EXISTING WATER MAINS WILL BE DONE IN ACCORDANCE WITH AWWA SPECIFICATIONS C651.

MATERIAL SPECIFICATIONS:

PAVING, GRADING, & DRAINAGE:

- 1. PAVING MATERIALS SHALL CONFORM WITH F.D.O.T. ROAD AND BRIDGE CONSTRUCTION STANDARD PLANS, LATEST EDITION.
2. STORM DRAINS SHALL BE REINFORCED CONCRETE PIPE, PER ASTM C-76 CLASS III, UNLESS OTHERWISE SPECIFIED. LIFTING HOLES ARE PROHIBITED.
3. ALL STORM STRUCTURES SHALL CONFORM WITH F.D.O.T. ROAD AND BRIDGE CONSTRUCTION STANDARD PLANS, LATEST EDITION, EXCEPT THAT DITCH BOTTOM INLETS IN PAVED AREAS SHALL HAVE TRAVERSABLE, TRAFFIC BEARING, GRATES SUPPORTED BY STEEL ANGLE SEATS OR SUPPORTED ON FOUR SIDES. GRATES SHALL BE CAST IRON UNLESS BICYCLE TRAFFIC IS ANTICIPATED.
4. ALL TYPE "P" STRUCTURE BOTTOMS SHALL BE ROUND UNLESS OTHERWISE SPECIFIED & SHALL HAVE 4 FEET MINIMUM DIAMETER.

WATER MATERIAL:

GENERAL MATERIAL SPECIFICATIONS

MATERIAL USED IN THE CONSTRUCTION OF THE WATER DISTRIBUTION SYSTEM SHALL ADHERE TO THE REQUIREMENTS OUTLINED IN THE O.C.U. WATER DISTRIBUTION'S SPECIFICATION STANDARDS MANUAL. THE FOLLOWING INFORMATION IS TO PROVIDE GENERAL GUIDANCE IN THE PREPARATION OF CONSTRUCTION PLANS AND SPECIFICATIONS, AND IN NO WAY LIMITS O.C.U.'S RIGHTS TO APPROVE OR DISAPPROVE PLANS, SPECIFICATIONS OF INSTALLATIONS. MOST CENTRAL FLORIDA UTILITY SUPPLY COMPANIES HAVE A COPY OF O.C.U.'S SPECIFICATION STANDARDS MANUAL.

- 1. THE TYPICAL O.C.U. DISTRIBUTION SYSTEM PIPE SIZES AND MATERIAL USED ARE:
\* TWO INCH (2") WATER MAINS SHALL BE ASTM 2241 CLASS 200 SDR21 POLYVINYL CHLORIDE (PVC) PIPE.
\* FOUR INCH (4") WATER MAINS SHALL BE EITHER PRESSURE CLASS 350 DUCTILE IRON (D.I.) IN ACCORDANCE WITH ANSI/AWWA C150/A21.50-96 AND ANSI/AWWA C151/A21.51-86 OR, AS CONDITIONS WARRANT, C900 SDR18 CLASS 150 PVC PIPE.
\* SIX INCH (6") THROUGH TWENTY FOUR INCH (24") WATER MAINS SHALL BE PRESSURE CLASS 350 D.I. PIPE IN ACCORDANCE WITH ANSI/AWWA C150/A21.50-96 AND ANSI/AWWA C151/A21.51-86.
\* THIRTY INCH (30") AND LARGER WATER MAINS SHALL BE PRESSURE CLASS 250 D.I. PIPE IN ACCORDANCE WITH ANSI/AWWA C150/A21.50-96 AND ANSI/AWWA C151/A21.51-86.
NOTE:
1. THE USE OF 2" AND/OR 4" PVC PIPE MUST BE APPROVED BY O.C.U. WATER ENGINEERING.
2. PVC PIPE MUST BE BLUE IN COLOR OR HAVING CONTINUOUS BLUE MARKINGS TO CONFORM TO AWWA COLORS WITH NSF LOGO FOR POTABLE WATER USE.
3. DUCTILE IRON PIPE WILL BE STRIPED WITH BLUE LATEX ACRYLIC PAINT. STRIPES WILL BE A MINIMUM OF 2" WIDE. PIPES LESS THAN 24" WILL HAVE 1 STRIPE ON TOP. PIPES 24" AND LARGER WILL HAVE AN ADDITIONAL STRIPE ON EACH SIDE.
2. ALL PIPE FITTINGS 4" UP TO 30" SHALL BE CEMENT OR EPOXY LINED (CLASS 350) AWWA C153 "COMPACT" DUCTILE IRON, WITH MECHANICAL JOINT ENDS. ALL PIPE FITTINGS 30" OR LARGER SHALL BE CEMENT LINED (CLASS 250) DUCTILE IRON, WITH MECHANICAL JOINT ENDS.
3. A SERVICE MATERIAL FOR AND 1" SHALL INCLUDE SOFT ANNEALED TYPE-K COPPER TUBING.
B SERVICE MATERIAL FOR 2" SHORT SIDE SERVICES SHALL INCLUDE 2" CTS TYPE-K HARD COPPER PIPE.
C SERVICE MATERIAL FOR 2" LONG SIDE SERVICES SHALL INCLUDE 2" RESTRAINED JOINT (SDR 17/CLASS 250) PVC PIPE (IPS-O.D.).
4. SERVICE MATERIAL (CORP. STOPS, CURB STOPS, ETC.) FOR 1", AND 2" SERVICES SHALL BE BRASS COMPRESSION FITTINGS IN ACCORDANCE W/AWWA C800. FLARED FITTINGS ARE ACCEPTABLE UNDER CONTROLLED CONDITIONS. AN AWWA (CC) THREADING IS REQUIRED ON ALL 1" CORPORATION STOPS USED WITH DIRECT PIPE TAPPING ON DUCTILE IRON PIPE OR WITH SERVICE CLAMPS ON PVC PIPE. INSTALLATION OF 2" SERVICES REQUIRE SERVICE CLAMPS AND TO ACCOMMODATE 1 1/2" OR 2" METERS, 2" BALL ANGLE METER VALVES (CTS X FLANGE) WITH SLOTTED HOLES ON THE FLANGE FACE ARE REQUIRED. PADLOCK WINGS MUST BE INCLUDED ON EACH CURB STOP OR BALL METER VALVE.
5. FIRE HYDRANTS SHALL BE TRAFFIC DRY BARREL TYPE AND MEET O.C.U. SPECIFICATIONS. MANUFACTURERS ACCEPTED - MUELLER A-423 (CENTURION), KENNEDY K-81A, U.S. PIPE & FOUNDRY COMPANY (METROPOLITAN), AMERICAN-DARLING B84B, M & H VALVE COMPANY #929.
6. ALL VALVES 4" THROUGH 12" SHALL BE RESILIENT SEAT/WEDGE GATE VALVES WITH EPOXY COATING INTERNALLY/EXTERNALLY AND CONFORM TO ANSI/AWWA STANDARD C509-94 OR LATEST REVISION. ALL VALVES 16" AND LARGER SHALL BE BUTTERFLY, HAVE EPOXY COATING AND CONFORM TO ANSI/AWWA C504-94 OR LATEST REVISION.
7. ALL VALVE BOXES SHALL BE CAST IRON SLIDING TYPE. SCREW TYPE ARE NOT APPROVED.

SPECIAL MATERIAL:

SPECIAL NOTICE:

ALL SANITARY SEWER MATERIAL USED IN THE CONSTRUCTION OF THE SANITARY SEWER SYSTEM SHALL ADHERE TO THE REQUIREMENTS OUTLINED IN THE ORANGE COUNTY MANUAL OF STANDARDS & SPECIFICATIONS. THE FOLLOWING INFORMATION IS TO PROVIDE GENERAL GUIDANCE IN THE PREPARATION OF CONSTRUCTION PLANS AND SPECIFICATIONS, AND IN NO WAY LIMITS ORANGE COUNTY'S RIGHTS TO APPROVE OR DISAPPROVE PLANS, SPECIFICATIONS, OR INSTALLATIONS.

1. PVC GRAVITY SEWER PIPE

- A. PVC GRAVITY SEWER PIPE (4"-15"). ASTM D3034, SDR 35. UNIFORM MINIMUM "PIPE STIFFNESS" AT FIVE (5) PERCENT DEFLECTION SHALL BE 46 PSI. THE JOINTS MANUFACTURED IN ACCORDANCE WITH ASTM D3212 AND ASTM F477. APPLICABLE UNI-BELL PLASTIC PIPE ASSOCIATION STANDARD IS UNI-B-4.
B. PVC GRAVITY SEWER PIPE (18"-27"). ASTM F679, SDR35. UNIFORM MINIMUM "PIPE STIFFNESS" AT FIVE (5) PERCENT DEFLECTION SHALL BE 46 PSI. THE JOINTS SHALL BE INTEGRAL BELL ELASTOMERIC GASKET JOINTS MANUFACTURED IN ACCORDANCE WITH ASTM D3212 AND ASTM F477. APPLICABLE UNI-BELL PLASTIC PIPE ASSOCIATION STANDARD IS UNI-B-7.
C. ALL PVC PIPE SHALL BEAR THE NSF-DW SEAL. THE MINIMUM STANDARD LENGTH OF PIPE SHALL BE THIRTEEN (13) FEET.

- 2. ALL PIPE SHALL HAVE A HOMING MARK ON THE SPIGOT PROVIDED BY THE MANUFACTURER. ON FIELD CUT PIPE, CONTRACTOR SHALL PROVIDE HOMING MARK ON THE SPIGOT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. REINFORCED CONCRETE PIPE SHALL HAVE MARKINGS INDICATING THE MINOR AXIS OF THE ELLIPTICAL REINFORCEMENT.

3. JOINTS MATERIALS

- A. PVC SEWER PIPE JOINTS SHALL BE FLEXIBLE ELASTOMERIC SEALS PER ASTM D 3212.
B. JOINTS BETWEEN PIPES OF DIFFERENT MATERIALS SHALL BE MADE WITH A FLEXIBLE MECHANICAL COMPRESSION COUPLING WITH NO. 304 STAINLESS STEEL BANDS. REFER TO ORANGE COUNTY MANUAL FOR APPROVED MANUFACTURERS' LIST.

4. FITTINGS

- A. UNLESS OTHERWISE SPECIFIED, WYE BRANCHES SHALL BE PROVIDED IN THE GRAVITY SEWER MAIN FOR SERVICE LATERAL CONNECTIONS. WYES SHALL BE SIX (6) INCHES INSIDE DIAMETER, UNLESS OTHERWISE APPROVED BY SAME MATERIAL AS THE PIPE.
B. PLUGS FOR STUB OUTS SHALL BE OF THE SAME MATERIAL AS THE PIPE, AND GASKETED WITH THE SAME GASKET MATERIAL AS THE PIPE JOINT, OR BE OF MATERIAL APPROVED BY ORANGE COUNTY. THE PLUG SHALL BE SECURED TO WITHSTAND TEST PRESSURES SPECIFIED IN THE ORANGE COUNTY MANUAL OF STANDARDS AND SPECIFICATIONS FOR WASTEWATER CONSTRUCTION.

LEGEND

SITE

- POLE SIGN
SMALL PYLON SIGN
LARGE PYLON SIGN
RIGHT TURN DIRECTIONAL ARROW
STRAIGHT DIRECTIONAL ARROW
LEFT TURN DIRECTIONAL ARROW
STRAIGHT AND LEFT TURN DIRECTIONAL ARROW
STRAIGHT AND RIGHT TURN DIRECTIONAL ARROW
HANDICAP PARKING SYMBOL
F.D.O.T. TYPE "D" CURB
F.D.O.T. TYPE "F" CURB AND GUTTER
GATE VALVE BOX, W= WATER, FV= FIRE, IV=IRRIGATION, & SSV=SANITARY SEWER
CHAINLINK FENCE
DECORATIVE WOOD OR ALUMINUM FENCE
BARB WIRE FENCE
HANDRAIL
SCREEN/RETAINING WALL, AS NOTED.
BIKE RACK
PARKING COUNT SYMBOL PER ROW
ROAD CENTERLINE SYMBOL

GRADING & DRAINAGE

- F.D.O.T. TYPE "C" DRAINAGE INLET
F.D.O.T. TYPE "D" DRAINAGE INLET
F.D.O.T. TYPE "E" DRAINAGE INLET
F.D.O.T. TYPE "1" DRAINAGE INLET
F.D.O.T. TYPE "2" DRAINAGE INLET
F.D.O.T. TYPE "3" DRAINAGE INLET
F.D.O.T. TYPE "4" DRAINAGE INLET
F.D.O.T. TYPE "5" DRAINAGE INLET
F.D.O.T. TYPE "6" DRAINAGE INLET
STORM DRAINAGE MANHOLE
MITERED END SECTION
STORM DRAINAGE PIPE
DRAINAGE FLOW DIRECTIONAL ARROW
DRAINAGE STRUCTURE BUBBLE
GRADE ELEVATION
CONTOUR ELEVATION
EROSION CONTROL SILT FENCE

UTILITY

- DCDA - DOUBLE CHECK DETECTOR ASSEMBLY
DCVA - DOUBLE CHECK VALVE ASSEMBLY
RPZ - REDUCED PRESSURE ZONE DEVICE
DOMESTIC METER
IRRIGATION METER
GATE VALVE
BLOW-OFF GATE VALVE
REDUCER
WET WELL
11.25" PIPE BEND
22.5" PIPE BEND
30" PIPE BEND
45" PIPE BEND
60" PIPE BEND
90" PIPE BEND
TEE
CROSS
FIRE HYDRANT ASSEMBLY W/ UNOBSTRUCTED AREA CLEARANCES AS REQUIRED BY FIRE MARSHALL
FIRE DEPARTMENT CONNECTION
CROSS OUT
LIFT STATION
GREASE TRAP
SITE LIGHTING
DECORATIVE SITE LIGHTING
UTILITY POLE

Table with columns for DATE, REVISIONS, BY, CHECKED, and SJS.

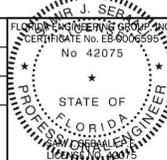
CONSTRUCTION PLANS
JOHN YOUNG COMMERCIAL BUILDING
10262 S. JOHN YOUNG PKWY
ORLANDO, FL 32837



5127 S. Orange Avenue, Suite 200
Orlando, FL 32809
Phone: 407-895-0324
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Table with columns for DESIGNED BY (SJS), DRAWN BY (AT), CHECKED BY (SJS), and APPROVED BY (SJS).

Table with columns for PROJECT NO. (23-022), SCALE (NOTED), DATE (DECEMBER 7, 2023), SHEET NO. (C-3), and SHEET 3 OF 16.



THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY: SAM J. SEABALL, P.E. ON February 14, 2024 USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.





**◆ SITE STRIPING & SIGNAGE KEYNOTES**

- S1. PROPERTY BOUNDARY.
- S2. HANDICAP PARKING STALL, TYPICAL.
- S3. HANDICAP SIGN, TYPICAL.
- S4. 24" THERMOPLASTIC STOP BAR.
- S5. 30"x30" R1-1 HIGH INTENSITY REFLECTORIZED "STOP" SIGN.
- S6. DIRECTIONAL ARROWS PER LATEST F.D.O.T. STANDARD PLANS INDEX 711-001, TYPICAL.
- S7. CROSSWALK STRIPING PER LATEST F.D.O.T. STANDARD PLANS INDEX 711-001, TYPICAL.
- S8. 8" WIDE WHITE STRIPING, TYPICAL.

**◆ SITE CONSTRUCTION KEYNOTES**

- C1. 6" HEAD CURB, TYPICAL.
- C2. ASPHALT PAVEMENT. LIGHT-DUTY IN PARKING SPACES.
- C3. ASPHALT PAVEMENT. HEAVY-DUTY IN DRIVE AISLES.
- C4. CONCRETE PAVEMENT.
- C5. CONCRETE SIDEWALK, TYPICAL.
- C6. MONOLITHIC CURB & SIDEWALK, TYPICAL.
- C7. HANDICAP ACCESS RAMP WITH A MAXIMUM 12:1 SLOPE, TYPICAL.
- C8. DETECTABLE WARNING SURFACE PER FLORIDA BUILDING CODE 2004.
- C9. WHEELSTOP PER LATEST F.D.O.T. STANDARD PLANS INDEX 520-001, TYPICAL.
- C10. 12"x12" DUMPSTER W/ 10' CONCRETE PAD & 6' HIGH BLOCK WALL ENCLOSURE ON 3 SIDES.
- C11. 6"x12' CONCRETE PAD FOR BICYCLE RACKS. SEE DETAIL 1 ON THIS SHEET.
- C12. INTEGRATED CURB & RETAINING WALL WHERE SHOWN.

**RECYCLING NOTE:**

- 1. COMMERCIAL RECYCLING WILL BE PROVIDED FOR THIS DEVELOPMENT BY CONTRACTING WITH AN APPROVED PROVIDER.

**SITE DATA**

PROPERTY LOCATION: 10262 S. JOHN YOUNG PKWY, ORLANDO, FLORIDA  
 JURISDICTION: ORANGE COUNTY  
 PARCEL NUMBER: 09-24-29-3051-01-001  
 PROPERTY FUTURE LAND USE DESIGNATION: IND  
 PROPERTY ZONING: PD  
 EXISTING USE: COMM VACANT LAND  
 PROPOSED USE: COMMERCIAL  
 PROJECT AREA: 2.48 ACRES  
 PROPOSED GROSS FLOOR AREA: 30,000 S.F.

PROPOSED FLOOR AREA RATIO: 0.28

BUILDING SETBACKS (REQUIRED)		BUILDING SETBACKS (PROPOSED)	
FRONT (WEST) (JOHN YOUNG PKWY R.O.W.)	40'	FRONT (WEST) (JOHN YOUNG PKWY)	67.2'
SIDE (NORTH)	10'	SIDE (NORTH)	63.0'
SIDE (SOUTH)	10'	SIDE (SOUTH)	36.7'
REAR (EAST)	10'	REAR (EAST)	84.2'

MAXIMUM ALLOWABLE BUILDING HEIGHT: 100'  
 BUILDING HEIGHT PROPOSED: 43'

BUILDING CONSTRUCTION TYPE: II-B

**PARKING**

PARKING REQUIRED		
WAREHOUSE	17,286 S.F. x (1 SPACE PER 1,000 S.F.) + 12 BAYS x (1 PER BAY)	30 SPACES
SHOWROOM	12,224 S.F. x (1 SPACE PER 300 S.F.)	41 SPACES
TOTAL PARKING REQUIRED		71 SPACES
SPACES REQUIRED TO BE RESERVED FOR HANDICAP		3 SPACES

PARKING PROVIDED		
STANDARD PARKING SPACES		95 SPACES
HANDICAP PARKING		4 SPACES
TOTAL PARKING PROVIDED		99 SPACES

BICYCLE PARKING		
BICYCLE PARKING REQUIRED:	2 SPACES PLUS 1 SPACE PER 10 VEHICULAR PARKING SPACES ABOVE 10	9 SPACES
BICYCLE PARKING PROVIDED:		12 SPACES

**SITE AREA CALCULATIONS**

BUILDING FOOTPRINT	30,000 S.F.		
PROPOSED PAVEMENT	50,077 S.F.		
PROPOSED CONCRETE	6,804 S.F.		
IMPERVIOUS AREA	85,681 S.F.	1.97 AC.	79.21%
PERVIOUS AREA	22,493 S.F.	0.52 AC.	20.79%
TOTAL SITE AREA	108,174 S.F.	2.48 AC.	100.00%

OPEN SPACE REQUIRED: (COMMERCIAL) 20%  
 OPEN SPACE PROVIDED: (CATEGORY A) 21%

**SOILS**

IMMOKALEE FINE SAND (HYDROLOGIC GROUP B/D)  
 ST. JOHNS FINE SAND (HYDROLOGIC GROUP B/D)

**WETLANDS NOTE**

AN ORANGE COUNTY CONSERVATION AREA DETERMINATION CAD-91-002 WAS COMPLETED WITH A CERTIFIED SURVEY OF THE CONSERVATION AREA BOUNDARY APPROVED BY THE ENVIRONMENTAL PROTECTION DIVISION (EPD) ON 1/22/2001. NO WETLANDS WERE LOCATED WITHIN THE PROJECT BOUNDARY.

**STORMWATER SYSTEM**

THE STORMWATER SYSTEM IS DESIGNED IN ACCORDANCE WITH ORANGE COUNTY AND SOUTH FLORIDA WATER MANAGEMENT DISTRICT (PERMIT APPLICATION NO. 131209-1 DATED 12/30/2013) REQUIREMENTS. DISCHARGE FROM THE PROJECT IS TO THE EXISTING POND LOCATED ON THE EXISTING PARCEL TO THE SOUTH CONSISTENT WITH PRIOR APPROVALS.

**SIGNAGE NOTE:**

POLE SIGNS AND BILLBOARDS SHALL BE PROHIBITED. ALL SIGNAGE SHALL COMPLY WITH CHAPTER 31.5 OF THE ORANGE COUNTY CODE.

**FLOOD ZONE**

FLOOD ZONE "AE" PER FEMA F.I.R.M. PANEL 12095C0420F DATED: 09/25/2009. 100-YEAR FLOOD ELEVATION 82 FT NAVD 88.

**LIGHTING NOTE**

LIGHTING SHALL COMPLY WITH ORANGE COUNTY LAND DEVELOPMENT CODE DESIGN STANDARDS.

**DUMPSTER NOTE**

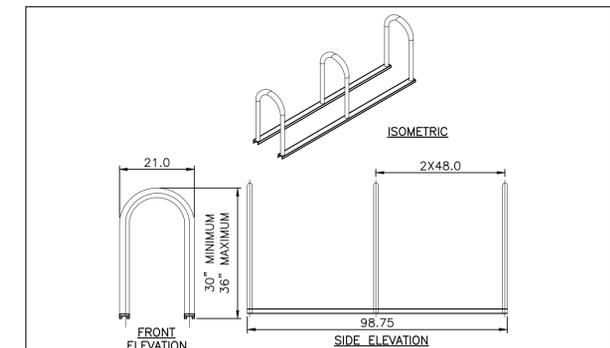
THE DUMPSTER SHALL HAVE A DECORATIVE OPAQUE GATE EQUAL IN HEIGHT TO THE MASONRY WALL AND THE WALL SHALL HAVE A DECORATIVE CONCRETE CAP. WALL SHALL BE ARCHITECTURALLY COMPATIBLE MATERIAL TO THE PRINCIPLE BUILDING. A MINIMUM 36" HIGH HEDGE (36" O.C.) SHALL BE PROVIDED ALONG THE ENCLOSURE WALLS.

**HAZARDOUS MATERIALS STATEMENT**

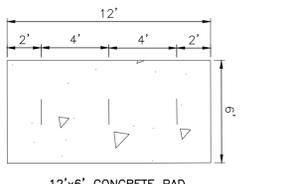
DURING CONSTRUCTION, WHEN COMBUSTIBLES ARE BROUGHT ONTO THE SITE IN SUCH QUANTITIES AS DEEMED HAZARDOUS BY THE FIRE OFFICIAL, ACCESS ROADS & A SUITABLE TEMPORARY SUPPLY OF WATER ACCEPTABLE TO THE FIRE DEPARTMENT SHALL BE PROVIDED & MAINTAINED.

**SITE NOTES:**

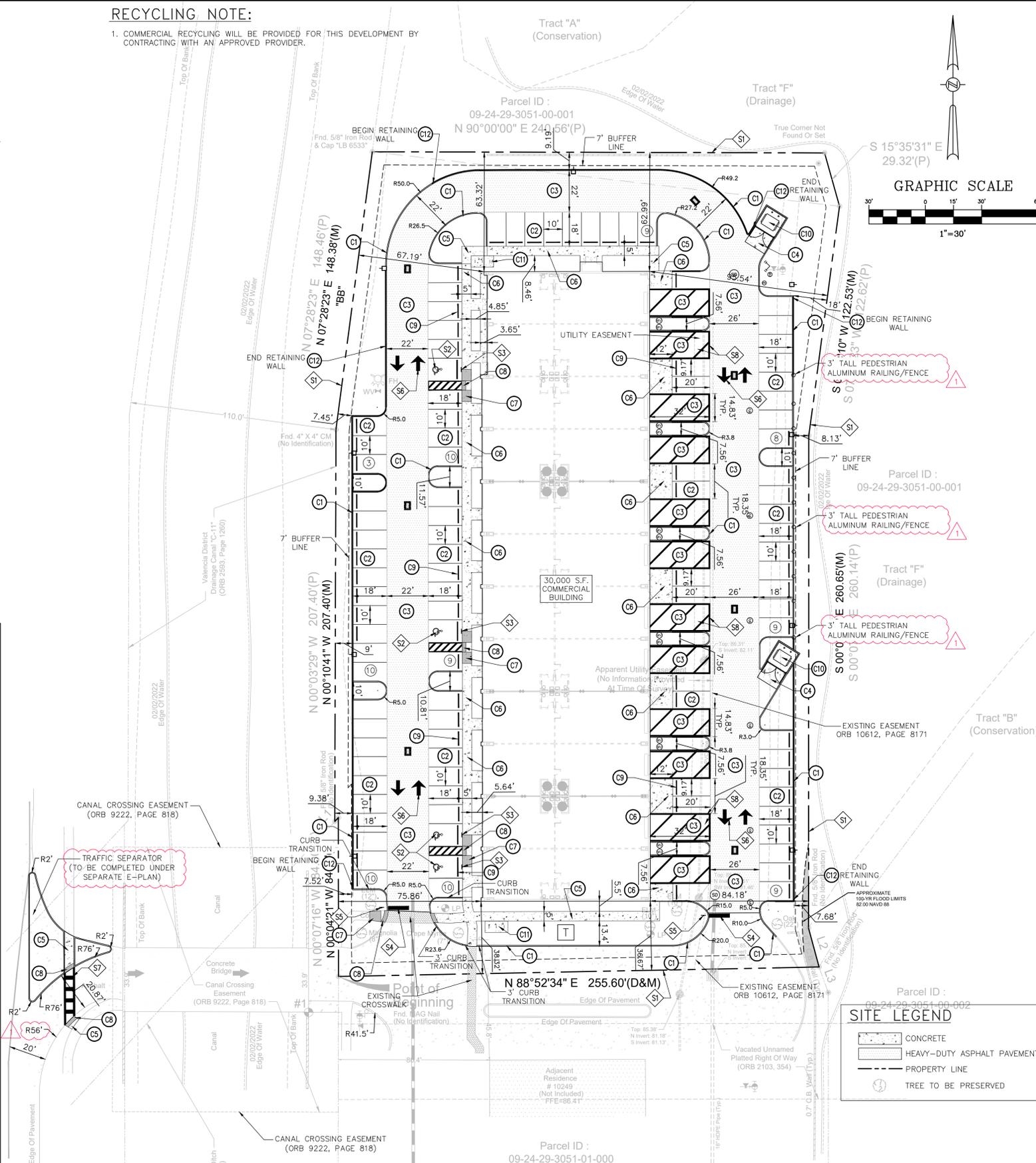
- LANDSCAPE ISLAND NOSE NOT TO EXCEED THE PARKING STALL DEPTH &/OR PROTRUDE INTO DRIVE ISLES, TYPICAL.
- ASSOCIATED OFFSITE INFRASTRUCTURE INCLUDING CONNECTING ROADWAYS AND DRAINAGE SYSTEMS MUST BE SUBMITTED AS AN E-PLAN, ALONG WITH THE REQUIRED SURETY PER CHAPTER 21-202 AND 21-208 AND ISSUED A CERTIFICATE OF COMPLETION PRIOR TO PLATTING. 38-1206(6)(C)
- HANDICAP (HC) RAMPS MUST BE CONSTRUCTED AT THE STREET INTERSECTION(S) AND DRIVEWAY CONNECTION(S) TO COMPLY WITH THE AMERICANS WITH DISABILITY ACT (ADA) AND WILL MEET FDOT DESIGN STANDARDS.
- DETECTABLE WARNING SURFACE WILL BE REQUIRED AT ALL PLACES WHERE PEDESTRIAN PATH MEETS VEHICULAR PATH.
- ALL PAVEMENTS MARKINGS SHALL BE THERMOPLASTIC AND MUST COMPLY WITH FDOT INDEX 711-001.



- NOTES:**
- BICYCLE RACKS SHALL HAVE A MINIMUM TUBE DIAMETER OF 1.9 INCHES AND BE POWDER COATED OR COATED WITH ANOTHER WEATHER PROOF SURFACE AS MAY BE APPROVED BY THE ZONING MANAGER.
  - BICYCLE RACKS SHALL BE A MAXIMUM HEIGHT OF 36 INCHES, A MINIMUM OF 30 INCHES ON CENTER BETWEEN HORIZONTAL ROWS, AND A MINIMUM OF 24 INCHES FROM ANY BUILDING WALL.
  - CONCRETE PAD SHALL BE 6" THICK, 3000 PSI (AT 28 DAYS). CONCRETE PLACED ON CLEAN COMPACTED SOILS WITH MIN. 95% COMPACTION BASED ON MODIFIED PROCTOR DENSITY.



**INVERTED U BIKE RACK**



**SITE LEGEND**

- CONCRETE
- HEAVY-DUTY ASPHALT PAVEMENT
- PROPERTY LINE
- TREE TO BE PRESERVED

DATE	REVISIONS	BY	CHECKED
02/13/2024	PER ORANGE COUNTY COMMENTS - DATED 01/03/2024	AT	SJS

**CONSTRUCTION PLANS**  
**JOHN YOUNG COMMERCIAL BUILDING**  
 10262 S. JOHN YOUNG PKWY  
 ORLANDO, FL 32837

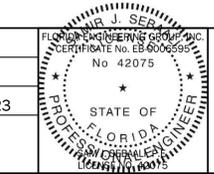
**FEG** FLORIDA ENGINEERING GROUP  
 Engineering the Future

5127 S. Orange Avenue, Suite 200  
 Orlando, FL 32809  
 Phone: 407-895-0324  
 Fax: 407-895-0325  
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**SITE GEOMETRY PLAN**

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
SJS	AT	SJS	SJS

PROJECT NO.	23-022
SCALE	1"=30'
DATE	DECEMBER 7, 2023
SHEET NO.	C-5
SHEET 6	OF 16



THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY: SAM J. SEABALL, P.E. ON February 14, 2024 USING A DIGITAL SIGNATURE.  
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**CONCRETE CONSTRUCTION NOTES**

- CONCRETE PRE-CONSTRUCTION MEETING
  - THE CONCRETE CONTRACTOR ALONG WITH THE CONCRETE PRODUCER MAY REQUEST THROUGH THE GENERAL CONTRACTOR FOR A PRE-CONSTRUCTION MEETING PRIOR TO CONCRETE PLACEMENT.
  - ATTENDEE: CONCRETE CONTRACTOR, CONCRETE PRODUCER, GENERAL CONTRACTOR, OWNER OR OWNER'S REPRESENTATIVE(S), ENGINEER OF RECORD, ARCHITECT, SITE CONTRACTOR, GEOTECHNICAL REPRESENTATIVE(S), ETC.
  - AGENDA: INCLUDE BUT NOT LIMITED TO THE FOLLOWINGS; (CONTRACTOR MAY CONTACT THE FLORIDA CONCRETE & PRODUCTS ASSOCIATION FOR PRE-CONSTRUCTION MEETING CHECK LISTS)
    - MIXTURE(S) APPROVAL
    - CONCRETE TESTING: TYPE, LOCATION, OF SAMPLINGS, ETC.
    - CONCRETE DELIVERY: QUANTITY/HR, PUMP, CONVEYOR, ETC.
    - PLACEMENT: METHOD, QUANTITY/DAY, STAGING & CLEAN OUT LOCATION, ETC.
    - FINISHING: CURING, JOINTING, ETC.
- JOINTS FOR CONCRETE SLABS
  - GENERAL - A JOINTING PLAN FOR THE ENTIRE PAVING AREA SHALL BE PREPARED BY THE CONCRETE CONTRACTOR & SUBMITTED TO THE ENGINEER OF RECORD (EOR) 2 WEEKS PRIOR TO PLACEMENT OF CONCRETE FOR THE EOR APPROVAL. THE CONTRACTOR MAY ALSO CONTACT THE FLORIDA CONCRETE & PRODUCTS ASSOCIATION (FC&PA) FOR TECHNICAL RESOURCES AND ASSISTANT.
    - A SQUARE JOINTING PATTERN IS REQUIRED WHERE POSSIBLE. IF NECESSARY, RECTANGULAR PANELS CAN BE USED IF THE LONG DIMENSION IS NO MORE THAN 1.5 TIMES THE SHORT (e.g. 8' x 12'). JOINT SPACING SHALL NOT EXCEED THE FOLLOWING: 10 FEET IN A 4" THICK SLAB, 12 FEET IN A 5" THICK SLAB OR 15 FEET IN SLAB WITH THICKNESS OF 6" OR GREATER.
    - BOX OUT AREA AROUND MANHOLES, CATCH BASINS, DRAINAGE STRUCTURES & OTHER BUILT-IN STRUCTURES WITHIN THE PAVING AREA SHALL BE CIRCULAR WHERE POSSIBLE. A MINIMUM OFFSET OF 12" FROM ANY EDGE OF THE STRUCTURE. OBTAIN A COPY OF THE FC&PA STANDARD DETAILS FOR REFERENCE. CONSTRUCTION & CONTROL JOINTS SHALL BE CONTINUOUS THROUGH ADJACENT LANES & EXTEND THROUGH INTEGRAL CURB. JOINTS CAN BE TERMINATED & OFFSET AT ISOLATION JOINTS. WHERE JOINTS INTERFACE ANY RADIUS OR CURVATURE, OFFSET A MINIMUM OF 12" FROM EDGE OF PAVEMENT AND FORM JOINT 90 DEGREE TO EDGE OF PAVEMENT TO AVOID ACUTE ANGLE OR SMALL WEDGES OF CONCRETE AT CURVATURES. OBTAIN A COPY OF THE FC&PA STANDARD DETAILS FOR REFERENCE.
  - CONSTRUCTION JOINTS - A CONSTRUCTION JOINT SEPARATES ONE DAY PLACEMENT TO THE NEXT DAY PLACEMENT. A CONSTRUCTION JOINT SHALL BE A MINIMUM OF 5 FEET FROM ANY ADJACENT CONTROL JOINT. NEXT DAY PLACEMENT SHALL BUTT UP TO THE EXISTING PAVEMENT AS A COLD JOINT. THE CONSTRUCTION JOINT MAY BE HAND-TOOLED WITH MAXIMUM 0.25" RADIUS AT THE EDGE OF THE JOINT. CONTROL JOINTS FROM BOTH PLACEMENT AREAS SHALL MATCH AND BE CONTINUOUS ACROSS THE CONSTRUCTION JOINT.
  - CONTROL/CONTRACTION JOINTS - CONTROL JOINTS ARE JOINTS WITHIN THE PAVING AREA FORMED THROUGH TOOLING OR SAW CUTTING. CONTROL JOINTS ESTABLISH WEAK PLANES TO RELIEVE STRESSES DUE TO SHRINKAGE OR TEMPERATURE CHANGE. INSTALL CONTROL JOINTS WITHIN 12 HRS FROM THE TIME THE CONCRETE HITS THE GROUND OR OBTAIN IN WRITING APPROVAL FROM THE EOR BEYOND THE 12-HR TIME LIMIT.
    - EARLY-ENTRY SAW CUTTING METHOD: CUT JOINT TO A MINIMUM OF 1" DEEP FOR PAVEMENT THICKNESS UP TO 8". CUTTING OF JOINT SHALL NOT CAUSE RAVELING TO THE EDGES OR DEFORMATION OF THE SURFACE DUE TO EQUIPMENT OR WORKER.
    - OTHER METHODS: INSTALL JOINT TO A MINIMUM OF 1/3 OF PAVEMENT DEPTH. FINISH EDGES WITH 0.25" RADIUS. OPERATION SHALL NOT CAUSE ANY DEFORMATION OF THE SURFACE.
  - ISOLATION JOINTS - THESE JOINTS USE ISOLATION MATERIALS TO PREVENT FRESH CONCRETE FROM BONDING TO HARDENED CONCRETE SUCH AS, BUT NOT LIMITED TO, BUILDING FOUNDATIONS, SIDEWALKS, DRAINAGE STRUCTURES, LIGHTING & SIGNAGE BASES, RETAINING WALLS, CURBS, ETC. THE ISOLATION MATERIAL SHALL EXTEND THE FULL-DEPTH OF THE FRESH CONCRETE THICKNESS. FROM ONE DAY PLACEMENT TO THE NEXT, WHERE JOINTS ARE MATCHED, ISOLATION MATERIAL IS NOT NECESSARY. (E.G. ONE LANE PAVING TO THE NEXT, INTEGRAL CURBS)
  - ISOLATION JOINTS BETWEEN SLABS AT SOME GRADE SHALL BE FORMED WITH 0.25 INCH THICK NEOPRENE OR 0.50 INCH THICK ASPHALT IMPREGNATED FIBER FILL WITH HYDROCARBON RESISTANT ELASTOMERIC FILL MATERIAL AS SEALER. ALL EDGES TO BE HAND TOOLED WITH MAXIMUM 0.50 INCH RADIUS.
  - A SATISFACTORY ISOLATION JOINT CAN BE FORMED AT METAL BUILDING CURBS BY PLACING A STRIP OF CURING PAPER AGAINST THE METAL FORM & THEN PLACING THE FRESH CONCRETE AGAINST THE PAPER. THE EDGES OF THE SLAB SHALL BE HAND TOOLED WITH MAXIMUM 0.50 INCH RADIUS.
- JOINTS SEALANT - A JOINT SEALING PLAN FOR THE AFFECTED AREA SHALL BE PREPARED BY THE CONCRETE CONTRACTOR & SUBMITTED TO THE EOR, ALONG WITH THE JOINTING PLAN, 2 WEEKS PRIOR TO PLACEMENT OF CONCRETE FOR THE EOR APPROVAL. NOT ALL JOINT WILL BE REQUIRED SEALING. THE CONCRETE CONTRACTOR IS TO RECOMMEND THE NECESSARY LOCATION AND TO PROVIDE SUPPORTING DOCUMENTATION FOR NON-SEALING AREAS. USE A POLYURETHANE SEALANT (TREMCO THC-900/THC-901 MULTI-COMPOUND) COMPOUND OR EQUIVALENT. THE CONCRETE CONTRACTOR IS TO SUBMIT SEALANT TYPE AND MANUFACTURER INFORMATION TO THE EOR FOR APPROVAL WHEN "EQUIVALENT" IS USE. JOINTS SHALL BE PREPARED BY FOLLOWING MANUFACTURER'S RECOMMENDATIONS PRIOR TO SEALING.

**ACCESSIBILITY NOTE:**

ACCESSIBLE RAMPS WITH DETECTABLE WARNING SHALL BE PROVIDED AT ALL SIDEWALKS CROSSING ROADWAYS OR DRIVEWAYS. A MINIMUM OF 1% AND A MAXIMUM OF 2% CROSS SLOPE SHALL BE PROVIDED FOR ALL CROSSWALKS.

**SIDEWALK AND CURB RAMP REQUIREMENTS:**

- SIDEWALK REQUIREMENTS:**
- THE SIDEWALK CROSS SLOPE MUST NOT EXCEED 2%.
  - IF THE LONGITUDINAL SLOPE OF THE SIDEWALK EXCEEDS 1:20 IT IS CONSIDERED A RAMP AND A LEVEL LANDING MUST BE PROVIDED FOR EVERY 30-INCH CHANGE IN ELEVATION AND IN SUCH CASES HANDRAILS MAY BE REQUIRED.
- SIDEWALK CURB RAMP REQUIREMENTS:**
- A LANDING MUST BE PROVIDED AT THE TOP OF RAMP WITH SLOPE THAT DOES NOT EXCEED 2% IN ANY DIRECTION.
  - THE CROSS SLOPE MUST NOT EXCEED 2%.
  - THE LONGITUDINAL SLOPE MUST NOT EXCEED 1:12.
  - THE RAMP SHALL HAVE A DETECTABLE WARNING SURFACE THAT SPANS THE FULL WIDTH OF THE DROP CURB/FLUSH CURB.

**SITE DRAINAGE KEYNOTES**

- F.D.O.T. TYPE "C" DITCH BOTTOM INLET PER LATEST F.D.O.T. STANDARD PLANS INDEX 425-052, TYPICAL.
- F.D.O.T. STORM DRAINAGE MANHOLE PER LATEST F.D.O.T. STANDARD PLANS INDEX 425-001, TYPICAL.
- EXISTING STORM INLET.

**GRADING KEYNOTES**

- F.D.O.T. TYPE "H" SILT FENCE EROSION CONTROL BARRIER, TYPICAL.
- SYNTHETIC EROSION CONTROL BARRIER, TYPICAL.
- ADJUST TOP OF STRUCTURE TO MATCH PROPOSED GRADE.

**DRAINAGE STRUCTURE LEGEND**

SD-1	SD-2	SD-3
TYPE "C" INLET PER F.D.O.T. STANDARD PLANS INDEX 425-052 TOP ELEV. 85.30 INV. ELEV. 81.05 S INV. ELEV. 81.05 S	TYPE "C" INLET PER F.D.O.T. STANDARD PLANS INDEX 425-052 TOP ELEV. 85.30 INV. ELEV. 81.30 N INV. ELEV. 81.30 S	TYPE "C" INLET PER F.D.O.T. STANDARD PLANS INDEX 425-052 TOP ELEV. 85.15 INV. ELEV. 81.54 S
EX-1 EXISTING INLET TOP ELEV. 85.10 INV. ELEV. 80.90 N INV. ELEV. 80.75 S	SD-4 F.D.O.T. MANHOLE PER F.D.O.T. STANDARD PLANS INDEX 425-001 TOP ELEV. 85.80 INV. ELEV. 81.10 N INV. ELEV. 81.10 S	SD-5 TYPE "C" INLET PER F.D.O.T. STANDARD PLANS INDEX 425-052 TOP ELEV. 85.25 INV. ELEV. 81.15 N INV. ELEV. 81.15 S
SD-6 TYPE "C" INLET PER F.D.O.T. STANDARD PLANS INDEX 425-052 TOP ELEV. 85.60 INV. ELEV. 81.40 N INV. ELEV. 81.40 S	SD-7 TYPE "C" INLET PER F.D.O.T. STANDARD PLANS INDEX 425-052 TOP ELEV. 87.30 INV. ELEV. 81.64 N INV. ELEV. 81.64 S	SD-8 TYPE "C" INLET PER F.D.O.T. STANDARD PLANS INDEX 425-052 TOP ELEV. 87.45 INV. ELEV. 81.74 N INV. ELEV. 81.74 S
SD-9 TYPE "C" INLET PER F.D.O.T. STANDARD PLANS INDEX 425-052 TOP ELEV. 85.15 INV. ELEV. 81.82 S		

**STORM DRAINAGE PIPE CHART**

DESIGNATION	PIPE		SLOPE	FROM STRUCTURE NUMBER	TO STRUCTURE NUMBER
	LENGTH (LINEAR FEET)	SIZE & TYPE			
SP-1	76	18" H.P.	0.2%	EX-PIPE	SD-1
SP-2	127	18" H.P.	0.2%	SD-1	SD-2
SP-3	122	15" H.P.	0.2%	SD-2	SD-3
SP-4	22	18" H.P.	0.2%	SD-4	SD-5
SP-5	125	18" H.P.	0.2%	SD-5	SD-6
SP-6	121	18" H.P.	0.2%	SD-6	SD-7
SP-7	50	18" H.P.	0.2%	SD-7	SD-8
SP-8	40	15" H.P.	0.2%	SD-8	SD-9

**STORMWATER SYSTEM:**

THE STORMWATER SYSTEM IS DESIGNED IN ACCORDANCE WITH ORANGE COUNTY AND SOUTH FLORIDA WATER MANAGEMENT DISTRICT (PERMIT APPLICATION NO. 131209-1 DATED 12/30/2013) REQUIREMENTS. DISCHARGE FROM THE PROJECT IS TO THE EXISTING POND LOCATED ON THE EXISTING PARCEL TO THE SOUTH CONSISTENT WITH PRIOR APPROVALS.

**STORM DRAIN INLET LABELS:**

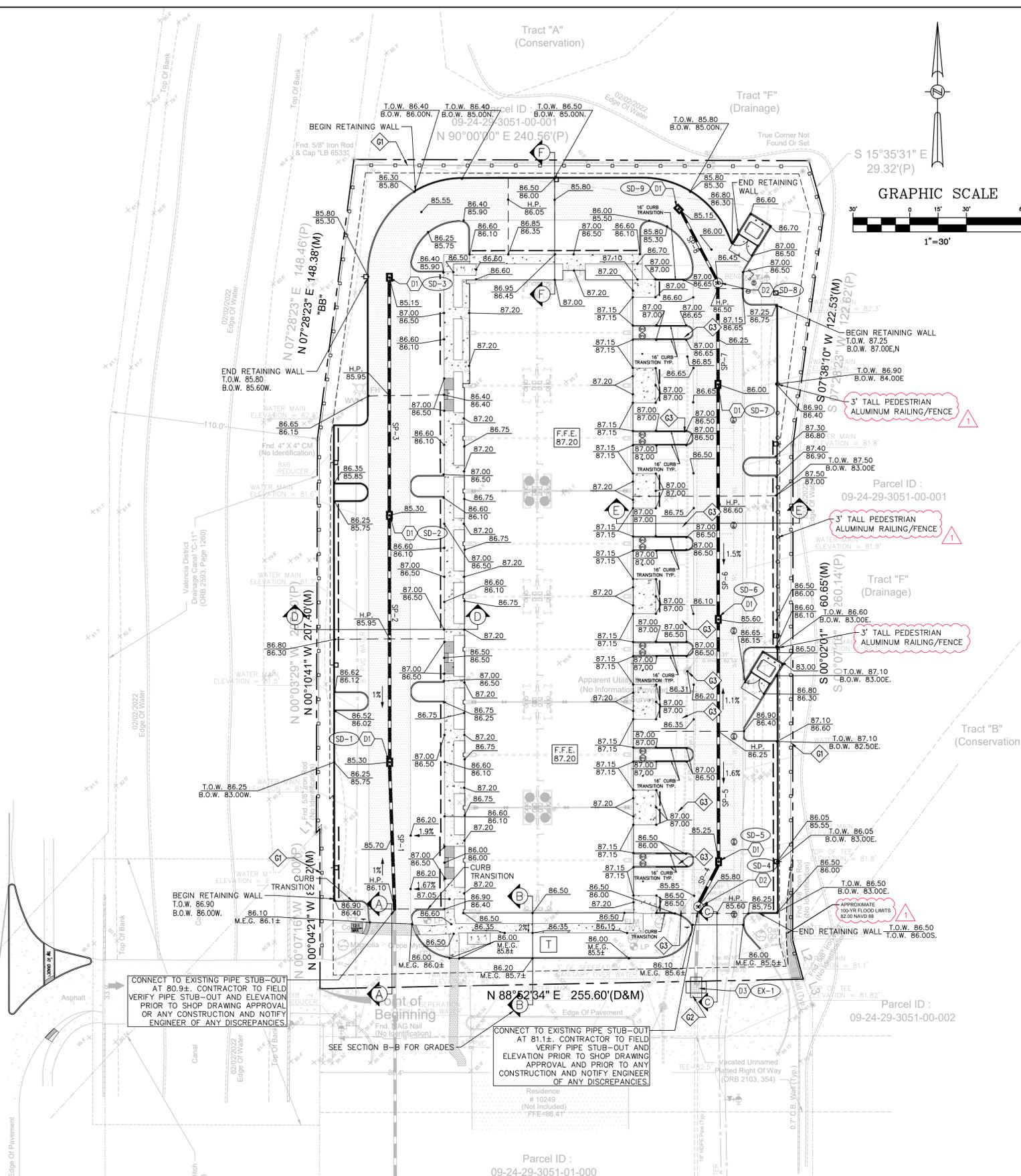
ALL STORM DRAIN INLETS CONSTRUCTED AS PART OF NEW DEVELOPMENT PROJECTS IN ORANGE COUNTY SHALL HAVE METAL MEDALLION INLET MARKERS INSTALLED. TEXT ON THE MARKER SHALL BE EVENLY SPACED AND READ "NO DUMPING, ONLY RAIN IN THE DRAIN". MARKERS MUST BE COMMERCIAL GRADE STAINLESS STEEL, ALUMINUM, BRASS OR BRONZE AND EITHER STAMPED FROM SHEET METAL OR CAST. METAL MARKER COLOR MUST BE NON-REFLECTIVE BLUE OR GREEN. AQUATIC CREATURE OR SYMBOL SHOWN ON MARKER SHALL BE CONSISTENT THROUGHOUT THE SUBDIVISION. MARKERS MUST BE AFFIXED TO A CLEAN, PREPARED SURFACE WITH ADHESIVES, FASTENERS, OR HEAT AS RECOMMENDED BY THE MANUFACTURER. MARKERS SHALL BE ALIGNED WITH THE CENTER OF DRAINAGE INLETS AT THE TOP OF THE CURB. LETTERING MUST BE BETWEEN 0.4 - 0.5 INCHES AND THE TOTAL DIAMETER OF THE MARKER BETWEEN 3.75 - 4.25 INCHES.

**PLAN LEGEND**

- SYNTHETIC EROSION CONTROL BARRIER
- SILT FENCE EROSION CONTROL BARRIER
- T.O.W. TOP OF WALL
- B.O.W. BOTTOM OF WALL EXPOSED - DOES NOT INCLUDE WALL FOUNDATION

**EROSION CONTROL NOTE:**

PROVIDE AND MAINTAIN SYNTHETIC SEDIMENT BARRIERS AT ALL INLETS DURING CONSTRUCTION. THIS IS REQUIRED IN ADDITION TO THE REQUIREMENTS SHOWN ON THE SWPPP.



DATE	REVISIONS	BY	CHECKED
02/13/2024	PER ORANGE COUNTY COMMENTS - DATED 01/03/2024	AT	SJS

**CONSTRUCTION PLANS**  
**JOHN YOUNG COMMERCIAL BUILDING**  
 10262 S. JOHN YOUNG PKWY  
 ORLANDO, FL 32837

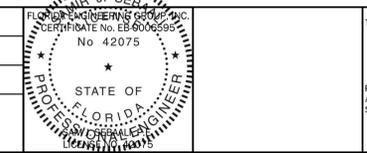


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 Fax: 407-895-0325  
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**SITE PAVING, GRADING, AND DRAINAGE PLAN**

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
SJS	AT	SJS	SJS

PROJECT NO. 23-022  
 SCALE 1"=30'  
 DATE DECEMBER 7, 2023  
 SHEET NO. C-6  
 SHEET 7 OF 16



THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY: SAM J. SEABALL, P.E. ON February 14, 2024 USING A DIGITAL SIGNATURE.  
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**GENERAL NOTES**

1. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN PROXIMITY OF WATER MAINS, WASTEWATER FORCE MAINS, GRAVITY MAINS AND RECLAIMED WATER MAINS. MAIN LOCATIONS SHOWN ON PLANS ARE NOT EXACT OR GUARANTEED. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING UTILITY LOCATIONS.
2. THE UTILITIES DISPATCH OPERATOR (407-836-2777) SHALL BE NOTIFIED BY THE CONTRACTOR FOR PIPE EMERGENCIES.
3. UTILITIES ENGINEERING AND CONSTRUCTION DIVISION: 407-254-9798.
4. ALL EXISTING WATER, FORCE, GRAVITY AND RECLAIMED WATER MAINS AND OTHER FACILITIES WITHIN THE LIMITS OF THE PROJECT SHALL BE SUPPORTED AND PROTECTED AGAINST DAMAGE DURING CONSTRUCTION.
5. CONTRACTOR SHALL ADJUST VALVE BOXES, AIR RELEASE VALVES, FIRE HYDRANTS, MANHOLE COVERS, ETC IN CONFLICT WITH ROADWAY.
6. THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE, SHALL IMMEDIATELY REPAIR ALL DAMAGES TO UTILITIES' MAINS AND FACILITIES, IF THE REPAIR IS NOT MADE IN A TIMELY MANNER, AS DETERMINED BY UTILITIES. UTILITIES MAY PERFORM REQUIRED REPAIRS AND CLEANUP. THE CONTRACTOR WILL BE CHARGED FOR ALL EXPENSES ASSOCIATED WITH THE REPAIR.
7. UTILITIES CONSTRUCTION DIVISION SHALL BE NOTIFIED AT LEAST SEVEN (7) DAYS PRIOR TO ANY CONSTRUCTION ACTIVITY WITHIN PROXIMITY OF ANY UTILITIES.
8. ONLY UTILITIES SHALL OPERATE WATER, WASTEWATER, AND RECLAIMED WATER VALVES. COORDINATE VALVE OPERATION WITH APPROPRIATE UTILITIES INSPECTOR.
9. THE CONTRACTOR SHALL COORDINATE ALL PUMP STATION OPERATION AND SHUT DOWN CONTROL WITH A UTILITIES INSPECTOR. THE CONTRACTOR SHALL PROVIDE FOR BYPASSING AND/OR HAULING OF WASTEWATER DURING THE INTERRUPTION OF FLOWS AND CONNECTIONS WITH EXISTING WASTEWATER SYSTEMS.
10. ALL NEW VALVES BEING INSTALLED SHALL REMAIN CLOSED DURING CONSTRUCTION. KEEP VALVES ON ALL WET TAPS CLOSED UNTIL CLEARED BY FDEP. DO NOT CONNECT ANY PROPOSED WATER MAIN TO ANY EXISTING WATER MAIN UNLESS CLEARED BY FDEP AND UTILITIES.
11. THE UTILITY IMPROVEMENTS AND ADJUSTMENTS SHOWN ON THESE PLANS ARE INTENDED TO MAINTAIN THE INTEGRITY OF THE ORANGE COUNTY WATER, WASTEWATER AND RECLAIMED WATER SYSTEMS. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MANUAL. THE PLANS DO NOT INCLUDE WORK PERFORMED ON OR FOR UTILITY SYSTEMS OWNED BY OTHERS, UNLESS STATED OTHERWISE ON THE PLANS.
12. ALL EXISTING AND NEW ORANGE COUNTY UTILITIES VALVES, VALVE BOXES, AND MANHOLES SHALL BE PROTECTED AND ADJUSTED TO FINISHED GRADE AS SHOWN ON THE DRAWINGS. ALL EXISTING ABOVE GROUND VALVES TO BE RELOCATED, AS REQUIRED.
13. MAKE TEMPORARY CONNECTIONS TO AN EXISTING POTABLE WATER SOURCE; FLUSH OUT NEW WATER MAIN WITH POTABLE WATER (USE "JUMPER" ASSEMBLY WITH BACKFLOW PREVENTER TO MAKE TEMPORARY CONNECTIONS TO AN EXISTING WATER SOURCE).

**SITE NOTES:**

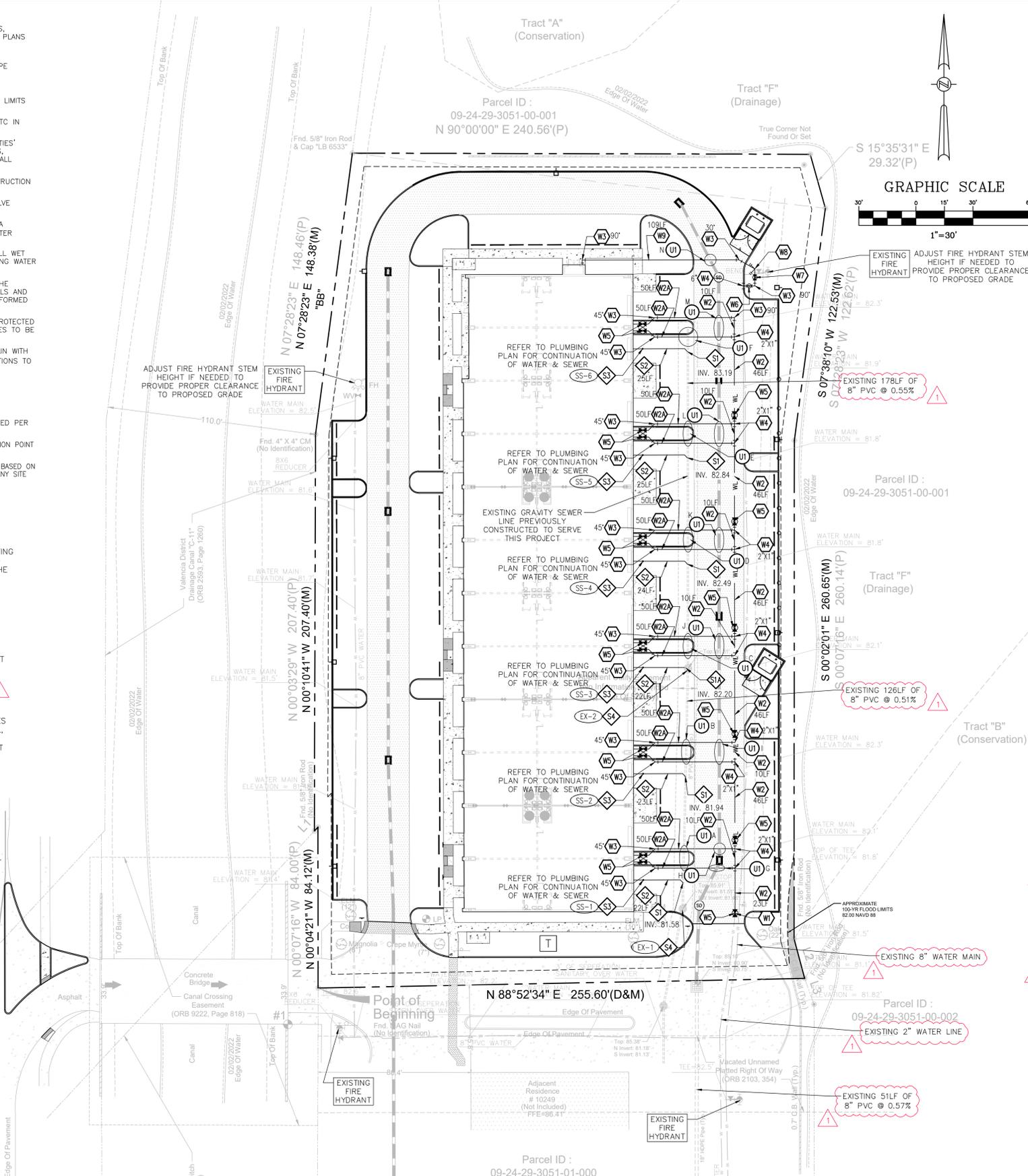
1. BACKFLOW PREVENTER, POST INDICATOR VALVE AND DOUBLE CHECK DETECTOR VALVES ARE TO BE PAINTED PER DEVELOPER'S COLOR CHOICE.
2. CONTRACTOR SHALL VERIFY ALL WATER UTILITY CONNECTIONS FOR SIZE & LOCATION PRIOR TO TIE-IN. CONNECTION POINT MAY BE ADJUSTED, PROVIDED CONNECTION IS TO THE WATER MAIN INDICATED ON THE PLANS.
3. CONTRACTOR SHALL VERIFY SIZE, LOCATION, AND ELEVATIONS OF WATER AND SEWER SERVICES OF THE BUILDING BASED ON THE PLUMBING PLANS, AND ENSURE THAT THIS INFORMATION IS COORDINATED WITH THE CIVIL PLANS PRIOR TO ANY SITE UTILITY CONSTRUCTION.

**OCU UTILITY NOTES**

1. THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES PRIOR TO START OF ANY CONSTRUCTION AND NOTIFY ENGINEER OF RECORD OF ANY CHANGES OR DISCREPANCIES. THE CONTRACTOR SHALL MAKE PROVISIONS TO AVOID CONFLICTS WHILE MAINTAINING THE DESIGN INTENT & MEETING O.C.U. & F.D.E.P. SEPARATION REQUIREMENTS & CONSTRUCTION STANDARDS. ANY CHANGES TO THE DESIGN INTENT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD. THE ENGINEER SHALL COORDINATE ANY DISCREPANCIES WITH O.C.U.
2. REFER TO ORANGE COUNTY STANDARD DETAILS FOR ALL UTILITY DESIGN INFORMATION. ALL SANITARY SEWER UTILITY CONSTRUCTION TO BE PER ORANGE COUNTY REQUIREMENTS.
3. ALL UTILITIES (INCLUDING PUMP STATION) LOCATED OUTSIDE PUBLIC R.O.W. & PUBLIC EASEMENT SHALL BE PRIVATELY OWNED & MAINTAINED.
4. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 3' COVER OVER ALL PROPOSED UTILITIES.
5. CONTRACTOR SHALL NOTIFY THE ORANGE COUNTY PUBLIC UTILITIES CONSTRUCTION DEPARTMENT 48 HOURS PRIOR TO ANY UTILITIES CONSTRUCTION PH. # 407-254-9798.
6. THE CONSTRUCTION OF ALL UTILITIES PROPOSED FOR CONNECTION TO THE ORANGE COUNTY UTILITY SYSTEM SHALL BE IN CONFORMANCE WITH THE ORANGE COUNTY FEBRUARY, 2021 STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL.
7. FOR PVC PIPES THAT WILL BE OWNED & MAINTAINED BY ORANGE COUNTY, ALIGNMENT CHANGES SHALL BE MADE ONLY WITH FITTINGS. LONG RADIUS CURVES, EITHER HORIZONTAL OR VERTICAL, MAY BE INSTALLED BY DEFLECTIONS AT THE JOINTS. MAXIMUM DEFLECTIONS AT PIPE JOINTS, FITTING AND LAYING RADIUS FOR THE VARIOUS PIPE LENGTHS SHALL NOT EXCEED 75 PERCENT OF THE PIPE MANUFACTURER'S RECOMMENDATION.

**UTILITY NOTES:**

1. POTABLE & SANITARY SERVICE CONNECTIONS TO ALL THE BUILDINGS ARE TO BE COORDINATED WITH ARCHITECTURAL AND MEP DRAWINGS PRIOR TO ANY WORK.
2. ALL PLUMBING WORK SHALL EXTENDED TO 5FT. OUTSIDE OF THE BUILDING AND IS TO BE COORDINATED BETWEEN SITE AND BUILDING/ PLUMBING CONTRACTOR AS TO SIZE, LOCATION AND DEPTH.
3. ALL EXISTING UTILITIES HAVE BEEN FIELD VERIFIED AT ALL POINTS OF CONNECTION TO, AND AT ALL AREAS OF CONFLICT WITH OCU MAINS. (REFER TO OCU MANUAL SECTION 2111 3.03 G.)
4. CONTACT YOUR DESIGNATED OCU INSPECTOR AT THE CONSTRUCTION DIVISION AT 407-254-9798 TO SCHEDULE A MEETING PRIOR INITIATING CONSTRUCTION TO DISCUSS INSPECTION REQUIREMENTS
5. PRIOR TO FIRE LINE INSTALLATION, THE FLORIDA LICENSED CONTRACTOR SHALL SUBMIT LAYOUT DESIGN DRAWINGS TO THE OFFICE OF THE FIRE MARSHAL. IF REQUIRED BY FLORIDA STATUTE 553.79, DRAWINGS MUST BE SIGNED AND SEALED BY A FLORIDA LICENSED PROFESSIONAL ENGINEER. THE DRAWINGS MUST SHOW ALL UNDERGROUND FIRE LINES AND COMPONENTS STARTING FROM THE POINT OF SERVICE AS DEFINED UNDER FLORIDA STATUTE 633.102. THE DESIGN SHALL BE IN ACCORDANCE TO THE CURRENT FLORIDA FIRE PREVENTION CODE AND ALL ADOPTED NFPA CODES AND STANDARDS.
6. EXISTING UTILITIES INFORMATION IS OBTAINED FROM THE AS-BUILT PLANS PREPARED BY CENTRAL FLORIDA GEOMATICS, INC. DATED 12/03/2007.



**WATER UTILITY KEYNOTES**

- W1. CONNECT TO EXISTING PRIVATE 2" POTABLE WATER SERVICE MAIN.
- W2. 2" PVC SCH 80 WATER SERVICE LINE WITH RESTRAINED JOINT (SDR 17/CLASS 250), SEE PLAN FOR LENGTH.
- W2A. 1" PVC SCH 80 WATER SERVICE LINE WITH RESTRAINED JOINT (SDR 17/CLASS 250), SEE PLAN FOR LENGTH.
- W3. BEND WITH RESTRAINED JOINTS TYPICAL, SEE PLAN FOR ANGLE.
- W4. TEE, TYPICAL. SEE PLAN FOR SIZE.
- W5. GATE VALVE.
- W6. POST INDICATOR VALVE ASSEMBLY / POINT OF SERVICE (P.O.S.).
- W7. CHECK VALVE, SEE PLAN FOR SIZE.
- W8. FIRE DEPARTMENT CONNECTION (FDC).
- W9. 6" PVC C-900 DR-14 FIRE SERVICE LINE, SEE PLAN FOR LENGTH.

**FIRE PROTECTION:**

THE FIRE PROTECTION SYSTEM PIPING SHALL BE REVIEWED AND COORDINATED BY THE FIRE PROTECTION ENGINEERS BASED ON THE FINAL PROTECTION SYSTEM DESIGN AND NEEDS FOR THE BUILDING.

**IRRIGATION NOTE:**

1. IRRIGATION TO CONNECT TO EXISTING ON-SITE RECLAIMED IRRIGATION SYSTEM, WHICH IS CONNECTED TO THE ORANGE COUNTY PUBLIC RECLAIMED IRRIGATION SYSTEM WITH AN EXISTING 1-1/2" RECLAIMED METER LOCATED ON THE EAST SIDE OF THE DRIVEWAY AT TAFT VINELAND ROAD.

**UTILITY KEYNOTES**

- U1. UTILITY CROSSING TO BE DENOTED BY LETTER AND SHOWN DETAILS ON SHEET C-8.

**SANITARY SEWER UTILITY KEYNOTES**

- S1. CONNECT TO EXISTING PRIVATE SANITARY LINE WITH WYE WITH A 6" BRANCH. SEE PLAN FOR INVERT ELEVATION. THE CONTRACTOR SHALL VERIFY EXISTING LATERAL INVERTS TO ENSURE IT IS EQUAL TO OR LOWER THAN THE ELEVATIONS SHOWN ON THIS PLAN PRIOR TO START OF CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCY.
- S1A. CONNECT TO EXISTING PRIVATE SANITARY MANHOLE. SEE PLAN FOR INVERT ELEVATION.
- S2. SANITARY SEWER LINE.
- S3. 6" PVC ASTM D3034 SDR 26 SANITARY SEWER LINE GREEN IN COLOR @ MIN. 1.0% SLOPE. SEE PLAN FOR SLOPE AND LENGTH.
- S4. EXISTING SANITARY MANHOLE.

**SANITARY SEWER STRUCTURE LEGEND**

KEYNOTE	STRUCTURE TYPE	TOP ELEV.	INVERT ELEV.	INVERT ELEV.	INVERT ELEV.
EX-1	EXISTING SANITARY SEWER MANHOLE	85.91	81.51 N	81.46 SW	
SS-1	SANITARY SEWER CLEAN-OUT	87.03	81.79 E	81.79 W	82.08 E
SS-2	SANITARY SEWER CLEAN-OUT	87.03			82.08 W
EX-2	EXISTING SANITARY SEWER MANHOLE	86.31	±82.16 N	82.11 S	
SS-3	SANITARY SEWER CLEAN-OUT	87.03	82.38 E	82.38 W	82.67 E
SS-4	SANITARY SEWER CLEAN-OUT	87.03			82.67 W
SS-5	SANITARY SEWER CLEAN-OUT	87.03	82.96 E	82.96 W	
SS-6	SANITARY SEWER CLEAN-OUT	87.03	83.23 E	83.23 W	

**NEEDED FIRE FLOW**

FIRE AREA CONSIDERED: WAREHOUSING & DISTRIBUTION  
 TYPE OF CONSTRUCTION: II(000), UNPROTECTED FULLY SPRINKLERED  
 AUTOMATIC SPRINKLERS BUILDING: YES  
 TOTAL FLOOR AREA: 30,000 S.F.  
 LARGEST UNDIVIDED FLOOR AREA: 30,000 S.F.  
 NUMBER OF STORIES: 1

FIRE FLOW REQUIRED: 3,750 G.P.M.\* (FOR BUILDINGS WITHOUT FIRE SPRINKLER PROTECTION)

\*FIRE FLOW IS BASED ON PER CHAPTER 18, TABLE 18.4.5.2.1 MINIMUM REQUIRED FIRE FLOW AND FLOW DURATION FOR BUILDINGS, NFPA 1 (2018), CHAPTER 4, TABLE 4.1.1 FIRE RESISTANCE RATINGS FOR TYPE I THROUGH TYPE V CONSTRUCTION (HR.).

FIRE SPRINKLER CREDIT: 3,750 G.P.M. x 75% DEDUCTION CREDIT = 938 G.P.M. (FIRE FLOW CREDIT - SPRINKLERED BUILDING)

FIRE FLOW REQUIRED: 1,000 G.P.M.\* (ASSUMING FIRE SPRINKLERS WILL NOT BE QUICK-RESPONSE PER NFPA 18.4.5.3.2)  
 \*FIRE SPRINKLERS DESIGN WILL BE DETERMINED WITH BUILDING PLANS AND IS NOT COMPLETED AT THIS TIME

**FIRE HYDRANT CREDIT:**

FIRE HYDRANT(S) REQUIRED: ONE (1) HYDRANT WITHIN 250 FT. OF BUILDING PER TABLE 18.5.4.3, NFPA 1 (2018)  
 FIRE HYDRANT(S) PROVIDED: FOUR (4) EXISTING FIRE HYDRANTS ARE WITHIN 250-FOOT TRAVEL DISTANCE FROM BUILDING.



DATE	REVISIONS	BY	CHECKED
02/13/2024	PER ORANGE COUNTY COMMENTS - DATED 01/03/2024	AT	SJS

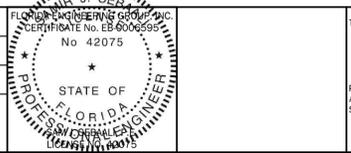
**CONSTRUCTION PLANS**  
**JOHN YOUNG COMMERCIAL BUILDING**  
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 ORLANDO, FL 32837



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 Orlando, FL 32809  
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SITE UTILITY PLAN			
DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
SJS	AT	SJS	SJS

PROJECT NO.	23-022
SCALE	1"=30'
DATE	DECEMBER 7, 2023
SHEET NO.	C-7
SHEET 8	OF 16



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APPENDIX A		STANDARD DRAWINGS									
HORIZONTAL PIPELINE SEPARATION REQUIREMENTS											
HORIZONTAL SEPARATION REQUIREMENTS (NOTES 1 & 2)											
PROPOSED UTILITY		POTABLE WATER MAIN (NOTE 3)		RECLAIMED WATER MAIN (SEE NOTE 7)		WASTEWATER FORCEMAIN		SANITARY SEWER	STORM SEWER	STRUCTURAL FOUNDATION, WALLS, ETC. (SEE NOTE 8)	
		4"-12"	16"-UP	4"-12"	16"-UP	4"-12"	16"-UP	ALL SIZES	ALL SIZES	ALL SIZES	ALL SIZES
POTABLE WATER (NOTE 3)	4"-12"	3'	5'	3'	5'	6'	6'	6'	3'	10'	
	16"-UP	5'	5'	5'	5'	6'	6'	6'	5'	15' (NOTE 5)	
RECLAIMED WATER MAIN (SEE NOTE 7)	4"-12"	3'	5'	3'	5'	3'	5'	3'	3'	10'	
	16"-UP	5'	5'	5'	5'	5'	5'	5'	5'	15' (NOTE 5)	
WASTEWATER FORCEMAIN	4"-12"	6'	6'	3'	5'	3'	5'	3'	3'	10'	
	16"-UP	6'	6'	5'	5'	5'	5'	5'	5'	15' (NOTE 5)	
SANITARY SEWER	ALL SIZES	6'	6'	3'	5'	3'	5'	3'	5'	VARIES PER DEPTH	

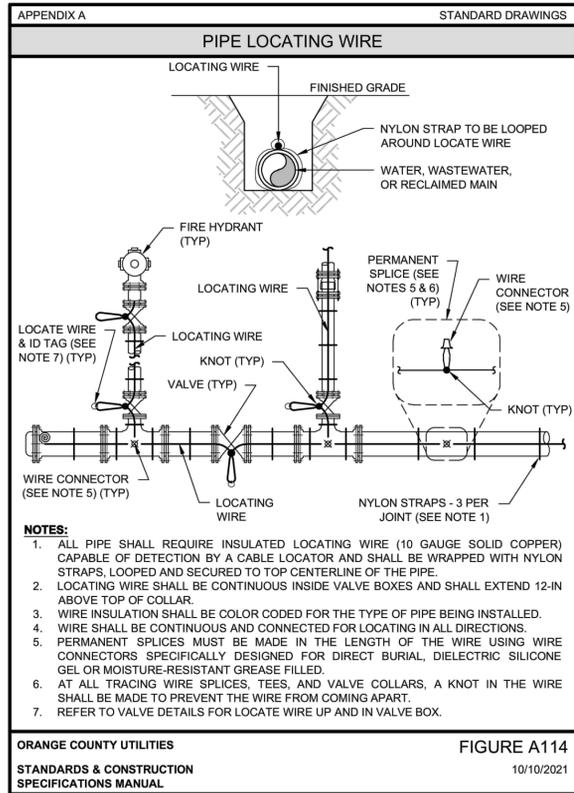
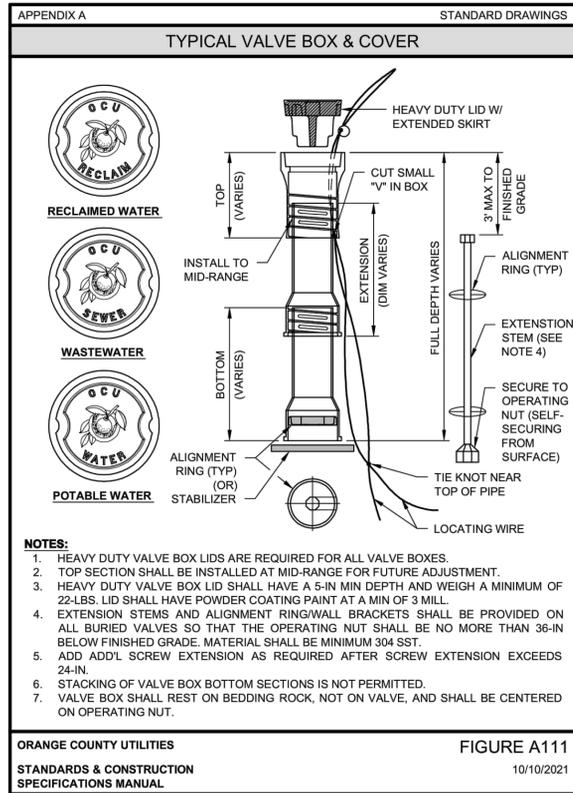
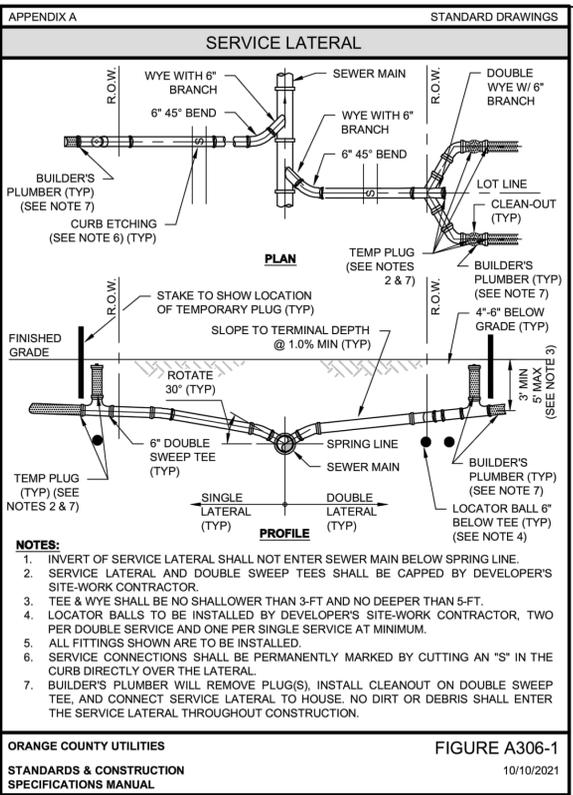
**NOTES:**  
1. DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.  
2. THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE. FOR PIPES INSTALLED AT GREATER DEPTHS THAN THE MINIMUM OCU DESIGN STANDARDS, PROVIDE AN ADDITIONAL FOOT OF SEPARATION FOR EACH ADDITIONAL FOOT OF DEPTH.  
3. THIS SEPARATION REQUIREMENT COMPLIES WITH THE MINIMUM FDEP SEPARATION REQUIREMENTS OUTLINED IN 62-555.314, FAC. VARIANCES FROM THE FDEP REQUIREMENTS MUST COMPLY WITH 62-555.314(5), FAC AND MUST BE APPROVED INDIVIDUALLY BY BOTH FDEP AND UTILITIES PRIOR TO INSTALLATION.  
4. NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURE.  
5. PRESSURE MAINS 16-IN TO 24-IN MAY HAVE 10-FT SEPARATION FROM STRUCTURAL FOUNDATION, WALLS, ETC IF NEW MAINS ARE RESTRAINED FOR THE ENTIRE LENGTH.  
6. REFERENCE FIGURE A116-2 FOR VERTICAL PIPELINE SEPARATION REQUIREMENTS.  
7. RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.  
8. ADDITIONAL SEPARATION SHALL BE REQUIRED BY UTILITIES FOR CONSTRUCTION OF, INCLUDING, BUT NOT LIMITED TO: LIVE LOADS, MULTI-STORY COMMERCIAL BUILDINGS, SUPERSTRUCTURES, EMBANKMENTS, RETAINING WALLS, BRIDGES, RAILROADS, HIGH VOLTAGE TRANSMISSION MAINS, GAS MAINS, ETC.

ORANGE COUNTY UTILITIES  
STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL  
FIGURE A116-1  
10/10/2021

APPENDIX A		STANDARD DRAWINGS					
VERTICAL PIPELINE SEPARATION REQUIREMENTS							
VERTICAL SEPARATION REQUIREMENTS (NOTES 1 & 2)							
PROPOSED UTILITY	POTABLE WATER (NOTE 4)	RECLAIMED WATER MAIN	WASTEWATER FORCEMAIN	SANITARY SEWER	STORM SEWER (NOTE 3)		
POTABLE WATER (NOTE 4)	12"	12"	12" / 18"	12" / 18"	12" / 18"		
RECLAIMED WATER MAIN	12"	12"	12"	12"	12" / 18"		
WASTEWATER FORCEMAIN	12"	12"	12"	12"	12" / 18"		
SANITARY SEWER	12" / 18"	12"	12"	12"	12" / 18"		

**NOTES:**  
1. DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.  
2. THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE.  
3. THE 18-IN SEPARATION REQUIREMENT APPLIES WHEN THE STORM PIPE OR SANITARY SEWER CROSSES ABOVE THE UTILITY MAIN, AND WHEN THE STORM PIPE HAS A DIAMETER EQUAL TO OR GREATER THAN 24-IN. OTHERWISE, THE REQUIRED SEPARATION IS 12-IN.  
4. THIS SEPARATION REQUIREMENT COMPLIES WITH THE MINIMUM FDEP SEPARATION REQUIREMENTS OUTLINED IN 62-555.314, FAC. VARIANCES FROM THE FDEP REQUIREMENTS MUST COMPLY WITH 62-555.314(5), FAC AND MUST BE APPROVED INDIVIDUALLY BY BOTH FDEP AND UTILITIES.  
5. NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURE.  
6. REFERENCE FIGURE A116-1 FOR HORIZONTAL PIPELINE SEPARATION REQUIREMENTS.  
7. JOINT SPACING AT CROSSING SHALL COMPLY WITH THE MINIMUM FDEP SEPARATION REQUIREMENTS OUTLINED IN 62-555.314, F.A.C.

ORANGE COUNTY UTILITIES  
STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL  
FIGURE A116-2  
10/10/2021



02/13/2024	PER ORANGE COUNTY COMMENTS - DATED 01/03/2024	AT	SJS
DATE	REVISIONS	BY	CHECKED

CONSTRUCTION PLANS  
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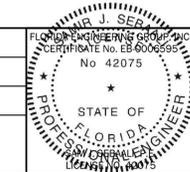


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ORANGE COUNTY  
UTILITY DETAILS (2 OF 2)

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
SJS	AT	SJS	SJS

PROJECT NO.	23-022
SCALE	NOTED
DATE	DECEMBER 7, 2023
SHEET NO.	C-11
SHEET 13	OF 16



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SAM J. SEBAALI, P.E.  
ON February 14, 2024 USING A DIGITAL SIGNATURE.  
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**LANDSCAPE NOTES**

- IN THE EVENT OF A DISCREPANCY BETWEEN THE PLANT LIST AND THE ACTUAL NUMBER OF PLANTS SHOWN ON THE PLAN, THE PLAN SHALL CONTROL. THE LANDSCAPE CONTRACTOR SHALL NOTIFY FEG OF ANY DISCREPANCY PRIOR TO ISSUANCE OF BIDS.
- ALL NEW PLANTINGS MUST COMPLY WITH THE SIZES AND QUANTITIES SHOWN IN THE PLANT LIST. ALL PLANTS MUST COMPLY WITH THE APPLICABLE JURISDICTIONAL CODE. PER THE FLORIDA GUIDES AND STANDARDS MANUAL ALL NEW TREES SHALL HAVE THEIR CALIPER MEASURED AT 6" ABOVE GRADE FOR ALL TREES UP TO AND INCLUDING 4" CALIPER TREES AND 12" ABOVE GRADE FOR ALL LARGER TREES.
- ALL PLANTING BEDS AND TREE SAUCERS TO HAVE ORGANIC MULCH TO A DEPTH OF 2" MINIMUM. AREAS WITH SLOPES GREATER THAN 4:1 SHALL HAVE TERRACED IN LONGER BEDS DESIGNED TO CAPTURE WATER AND REDUCE EROSION. TOPS OF MULCH RINGS OR TERRACES ARE TO BE LEVEL WITH RESPECT TO GRADE AND MULCH ON THE HIGH SIDE OF THE PLANTS.
- A TWELVE MONTH WARRANTY IS TO BE PROVIDED FOR ALL NEW PLANT MATERIALS STARTING FROM THE DATE OF FINAL CERTIFICATE OF OCCUPANCY OR ACCEPTANCE BY THE OWNER. WARRANTY CAN EXCLUDE PLANTS LOST DUE TO ACTS OF GOD OR VANDALISM. REPLACEMENT OF DEAD OR UNHEALTHY PLANT MATERIALS SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR WITHIN 30 DAYS OF NOTIFICATION IN CONFORMANCE WITH THE APPROVED LANDSCAPE PLAN.
- ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS SHALL BE FULLY SODDED ASIDE FROM DEFINED PLANTING BEDS. SOD SHALL BE FREE OF WEEDS AND NOXIOUS PESTS OR DISEASES. DISTURBED AREAS OUTSIDE OF PROJECT LIMITS SHALL BE SEEDED AND MULCHED UNLESS STEEPER THAN 5:1. PROVIDE SOD ON SLOPES STEEPER THAN 5:1. ALL DRY PONDS CAN BE SEEDED AND MULCHED ON THE BOTTOMS AND SIDE SLOPES. WET PONDS ARE TO BE SODDED DOWN TO THE BOTTOM OF THE 4:1 OR 5:1 SIDE SLOPES.
- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OCCURRING ON SITE OR ADJACENT AREAS, INCLUDING, BUT NOT LIMITED TO BUILDINGS, PAVING, UTILITIES, ETC., WHICH IS CAUSED BY PREPARING OR INSTALLING ANY AND ALL PLANT MATERIAL.
- GRADE, DRESS AND SOD OR SEED AREAS THAT HAVE BEEN DISTURBED AS SOON AS POSSIBLE TO PREVENT EROSION.
- ALL PLANT MATERIAL SHALL BE SET BACK FROM THE BACK OF CURBS OR PAVEMENT. SET TREES 3 FEET BACK FROM CURBS.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING IF THERE ARE ANY INVASIVE OR EXOTIC TREES LOCATED ON THE SITE AND IS REQUIRED TO REMOVE ALL INVASIVE SPECIES PER THE LOCAL JURISDICTION'S INVASIVE SPECIES LIST LOCATED IN THEIR CODE OF ORDINANCES. GENERAL CONTRACTOR TO CONFIRM WITH THE LANDSCAPE INSTALLER THAT NO INVASIVE OR EXOTIC PLANT MATERIALS EXIST ON SITE. INFORM LANDSCAPE ARCHITECT IF ANY OF THESE PLANTS EXIST.
- ANY PRUNING OF EXISTING TREES OR VEGETATION TO REMAIN AS A LANDSCAPE ELEMENT MUST BE CONDUCTED BY A CERTIFIED ARBORIST HOLDING A CURRENT CREDENTIAL WITH THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA). ALL PRUNING SHALL CONFORMING TO THE ANSI A300 STANDARDS, PART 1; CRUNING. THE SPECIFICATIONS FOR PRUNING SHALL BE DETERMINED BY THE CERTIFIED ARBORIST OR A PERSON QUALIFIED TO PREPARE PRUNING SPECIFICATIONS ACCORDING TO THE ANSI STANDARD. THE GREATEST EMPHASIS IN PRUNING SHALL BE THE SAFETY, HEALTH AND WELFARE OF THE TRAVELING OR PEDESTRIAN TRAFFIC ESPECIALLY AS IT RELATES TO PEOPLE OR PROPERTY WITHIN THE FAILURE FOOTPRINT OF THE TREE OR VEGETATION TO BE PRUNED. WHEN THERE ARE EXISTING TREES OR VEGETATION TO REMAIN, CONTRACTOR SHALL EMPLOY A CERTIFIED TREE SURGEON TO SELECT AND PRUNE ALL EXISTING PLANT MATERIALS TO PROVIDE A BALANCED APPEARANCE WHILE ALSO ELIMINATING ANY INTERFERENCE WITH THE NEW CONSTRUCTION OR SAFETY, VISIBILITY CORRIDORS.
- IRRIGATION (100% COVERAGE) SHALL BE PROVIDED IN ALL NEWLY PROPOSED PLANTING AREAS IN ACCORDANCE WITH THE JURISDICTIONAL LAND DEVELOPMENT CODE. SEE SHEET L-2, IRRIGATION PLAN FOR SPECIFICS.

**ORANGE COUNTY NOTES**

- TO SCHEDULE A LANDSCAPE INSPECTION FOR ALL COMPLETED PERMITS IN ORANGE COUNTY, USE THE "FAST TRACK" APPLICATION AT <https://fasttrack.ocfl.net/publicportal/oc/index.jsp> AND REQUEST A CODE "270" LANDSCAPE/ZONING INSPECTION. IF HAVING TROUBLE SCHEDULING PLEASE CALL THE BUILDING SAFETY DIVISION AT 407/836-8550. ALL PERMITS ASSOCIATED WITH THE PROJECT THAT ARE COMPLETE AND HAVE A LANDSCAPE ZONING HOLD SHOULD BE RELEASED IN ORDER FOR LANDSCAPE ZONING HOLD TO BE RELEASED UPON SATISFACTORY INSPECTION. INSPECTIONS ARE CONDUCTED ON TUESDAYS AND FRIDAYS ONLY AND SHALL BE SCHEDULED NO LATER THAN MIDNIGHT ON THE NIGHT BEFORE THOSE DAYS IN ORDER TO ENSURE THAT THE INSPECTION WILL TAKE PLACE. \*\* ANY TREES PROPOSED TO BE PRESERVED ON THIS PLAN THAT ARE SUBSEQUENTLY REMOVED, SHALL BE CONSIDERED A VIOLATION, AND AS SUCH SHALL BE REPLACED (IN INCHES) ON SITE AT A 2:1 RATIO FOR NON-SPECIMEN TREES AND AT 4:1 FOR SPECIMEN TREES. AS AN ALTERNATIVE, THE VIOLATION MAY BE SATISFIED VIA PAYMENT INTO THE COUNTY TREE FUND OR BY SOME COMBINATION OF PAYMENT AND ON-SITE PLANTING. THE CURRENT FEE, AS MAY BE AMENDED BY THE BCC, IS \$106.00 PER INCH. IN ALL CIRCUMSTANCES, MITIGATION SHALL BE SATISFIED PRIOR TO THE RELEASE OF THE LANDSCAPE/ZONING HOLD(S).
- MULCH, PER ORANGE COUNTY LDC SEC. 24-6(B)(4), SHALL BE ORGANIC AND SHALL NOT BE PLACED ON TOP OF THE ROOT BALL OR PLACED AGAINST THE TRUNK. MULCH SHALL BE APPLIED A MINIMUM OF 12" TO 18" FROM THE TRUNK OF ANY SIZED TREE. MATERIALS SUCH AS ROCK AND SHEDS THAT DO NOT BIODEGRADE, ARE NOT DEEMED ACCEPTABLE. FAILURE TO INSTALL MULCH (AND TYPE OF MULCH) AS PROVIDED IN THE SPECIFICATION ABOVE MAY RESULT IN A FAILED INSPECTION. SEE [HTTP://HORT.IFAS.UFL.EDU/WOODY/OVER-MULCHING.SHTML](http://hort.ifas.ufl.edu/woody/over-mulching.shtml) FOR MORE INFORMATION.
- SHADE/CANOPY TREE REQUIREMENTS SHALL COMPLY WITH ORANGE COUNTY LDC SEC. 24-2 AND SHALL MEET OR EXCEED FLORIDA #1 AS ESTABLISHED IN THE LATEST PUBLICATION BY THE FL. DEPT. OF AGRICULTURE "GRADES AND STANDARDS FOR NURSERY PLANT MATERIALS, FLORIDA". ADDITIONALLY, ALL LANDSCAPING SHALL BE INSTALLED ACCORDING TO ACCEPTED COMMERCIAL PLANTING PRACTICES, INCLUDING REMOVAL OF TWINE, TAGS AND LABELS FROM TRUNKS, AND ROPES FROM THE TOP OF THE ROOT BALL AND THE BENDING BACK OF THE LOOPS FROM THE TOP OF THE WIRE BASKET (IF APPLICABLE). BURLAP (SYNTHETIC OR OTHERWISE) SHALL BE FOLDED BACK. THE PLANTING HOLE SHALL BE NO DEEPER THAN THE ROOT BALL AND THE NATURAL ROOT FLARE SHALL BE VISIBLE AFTER PLANTING. MULCH SHALL NOT BE PLACED WITHIN (12) INCHES OF THE TRUNK FLARE AND IT SHALL HAVE A MIN. DEPTH OF (2) INCHES. SHADE TREES SHALL HAVE A MIN. CALIPER OF (3) INCHES WHEN MEASURED (6) INCHES ABOVE GRADE AND A MIN. HEIGHT OF (10) FT. DWARF CULTIVARS OF APPROVED SPECIES NOT MEETING MIN. (40) FT. IN HEIGHT AT MATURITY ARE NOT ACCEPTABLE. ALSO, IN ACCORDANCE WITH SEC. 24-4, WHEN A REQUIRED BUFFER LIES WITHIN (10) FT. OF AN ABOVE GROUND POWER OR OTHER UTILITY LINE, UNDERSTORY TREES MAY BE PLANTED IN LIEU OF SHADE TREES. UNDERSTORY TREES SHALL HAVE A MIN. CALIPER OF (2) INCHES, A MIN. HEIGHT OF (7) FT AT PLANTING AND SHALL BE PLANTED AT A RATE OF (1) FOR EVERY (25) L.F. WHETHER SHADE OR UNDERSTORY. ALL SPECIFIED TREES SHALL BE SELECTED FROM THE "FLORIDA FRIENDLY PLANT LIST". OTHER TREE SPECIES NOT LISTED IN THE "FLORIDA FRIENDLY PLANT LIST" MAY BE CONSIDERED BY THE ZONING MANAGER.
- ORANGE COUNTY LDC CHAPTER 24 HAS BEEN UPDATED EFFECTIVE 10/1/10, 24-7 AND THE SYSTEM WHETHER PERMANENT UNDERGROUND OR TEMPORARY, AS APPROPRIATE, SHALL BE DESIGNED AND INSTALLED SO AS TO CONFORM WITH CH. 37, ORANGE COUNTY LDC SECTIONS 601-613 OF THIS CODE. CERTIFICATION STATING THIS COMPLIANCE, ALONG WITH A NOTE AS TO WHETHER THE IRRIGATION IS PERMANENT OR TEMPORARY FOR THE PURPOSE OF ESTABLISHING PLANT MATERIAL SHALL BE PLACED ON THE PLANS.
- LANDSCAPING WITHIN THE SIGHT VISIBILITY TRIANGLE MUST BE KEPT CLEAR FROM A POINT 2' ABOVE GRADE TO A POINT 8.5' ABOVE GRADE AT ALL TIMES. LANDSCAPE CONTRACTOR SHALL FIELD VERIFY AND PROVIDE IN WRITING THAT THIS CONDITION HAS BEEN MET AT TIME OF INSTALLATION, ANY AND ALL OTHER PLANT MATERIALS WITHIN THE SIGHT VISIBILITY TRIANGLE SHALL BE CONFIRMED IN WRITING THAT THEY WILL NOT EXCEED THE 2' HEIGHT MAXIMUM. THIS CONFIRMATION BY THE LANDSCAPE CONTRACTOR SHALL BE PROVIDED AT THE TIME OF BIDDING AND NOT ONCE THE PLANTS HAVE BEEN PLACED IN THE FIELD.
- ALL TREES, PALMS, SHRUBS AND GROUND COVERS SHALL MEET OR EXCEED THE STANDARDS OF A FLORIDA NO 1 OR BETTER QUALITY AS SET FORTH IN THE LATEST EDITION OF GRADES AND STANDARDS FOR NURSERY PLANTS, FLORIDA DEPARTMENT OF AGRICULTURE.
- THE DEVELOPER AND ITS SUCCESSORS AND ASSIGNS WILL MAINTAIN THE LANDSCAPE IN COMPLIANCE WITH ORANGE COUNTY LANDSCAPE (CHAPTER 24) REQUIREMENTS. SUCH MAINTENANCE OBLIGATIONS SHALL BE INCLUDED IN THE DEED RESTRICTIONS ASSOCIATED WITH THE SUBDIVISION.
- ANY TREES PROPOSED TO BE PRESERVED ON THIS PLAN SHALL NOT HAVE ANY FILL OR EXCAVATION AT POINTS CLOSER THAN SIX FEET FROM THE BASE OF THE TREE OR AT THE RADIUS OF THE DRIP-LINE OF THE PROTECTED TREE OR STAND OF TREES, WHICHEVER IS GREATER. (SEC. 15-282(C))
- A TREE PRESERVATION/MITIGATION PLAN IS INCLUDED WITH THIS PSP OR DP SUBMITTAL. DUE TO FINAL SITE ENGINEERING EVALUATION, UP TO (BUT NO MORE THAN) 10% OF THE AMOUNT OF TREES (IN INCHES) SHOWN TO BE PRESERVED MAY BE REMOVED. PROVIDED SUCH REMOVALS ARE REFLECTED IN AN ADJUSTED TREE PRESERVATION/MITIGATION PLAN SUBMITTED AND APPROVED BY THE ZONING ARBOR OFFICE PRIOR TO REMOVALS. SUCH REMOVALS AND MITIGATION SHALL BE IN ACCORDANCE WITH REGULAR MITIGATION REQUIREMENTS, AND SHALL NOT BE CONSIDERED A VIOLATION. HOWEVER, ANY PROPOSAL OR REMOVAL OF MORE THAN 10% SHALL REQUIRE THAT THE TREE PRESERVATION/MITIGATION PLAN (PSP OR DP) TO RETURN TO DRC FOR A CHANGE DETERMINATION, WHERE THE PROPOSAL FOR EXCESS REMOVAL MAY BE CONSIDERED A SUBSTANTIAL CHANGE, AND/OR MAY CONSIDER THE REMOVALS TO BE A VIOLATION OF THE TREE PRESERVATION/MITIGATION PLAN (PSP OR DP) THEREBY REQUIRING PENALTY MITIGATION TO BE PROVIDED.

**SITE LANDSCAPE SCREENING NOTE:**

SERVICE AREAS, INCLUDING DUMPSTER ENCLOSURES, ARE REQUIRED TO HAVE A MIN. 36 INCH HIGH HEDGE ALONG THE ENCLOSURE WALLS.

TREES TO REMAIN		
SIZE	QTY	TOTAL
10" ELM	2	20"
12" ELM	1	12"
7" CRAPE	2	14"
8" MAGNOLIA	1	8"
22" OAK	1	22"
<b>TOTAL</b>	<b>7 TREES</b>	<b>76"</b>

TREES TO BE REMOVED		
SIZE	QTY	TOTAL
12" ELM	1	12"
<b>TOTAL</b>	<b>1 TREE</b>	<b>12"</b>

**LANDSCAPE CALCULATIONS**

ROW FRONTAGE WEST (355.78 LF):  
 REQUIRED: 1 CANOPY TREE/40' = 8.8 OR 9 TREES REQUIRED;  
 PROVIDED: 2 EXISTING TREES + 9 CANOPY TREES + HEDGE + GROUNDCOVER; THEREFORE, OK

NOTE: ANY EXISTING BUFFER NEAR CANAL IS TO BE PRESERVED AND CREDITED TO BUFFER REQUIREMENTS.

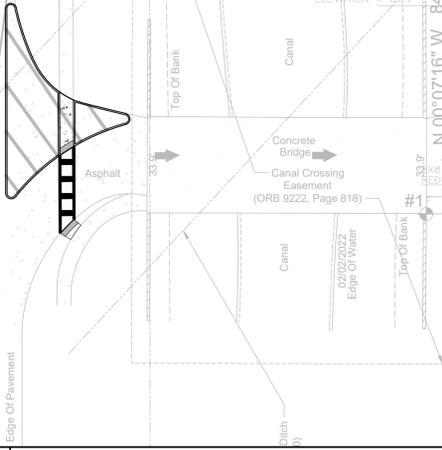
SOUTH BUFFER (255.60 LF):  
 REQUIRED: 1 TREE/40' = 6.4 OR 7 TREES  
 PROVIDED: 5 EXISTING CANOPY TREES + 2 NEW CANOPY TREES; THEREFORE, OK

EAST BUFFER (433.91 LF):  
 REQUIRED: 1 CANOPY TREE/40' = 10.8 OR 11 TREES REQUIRED  
 PROVIDED: 1 EXISTING CANOPY TREE + 10 NEW CANOPY TREES; THEREFORE, OK

NORTH BUFFER (240.56 LF):  
 REQUIRED: 1 TREE/40' = 6 TREES  
 PROVIDED: 6 NEW CANOPY TREES; THEREFORE, OK

BUILDING FOUNDATION (WEST): 333.33' - 68.53'( DOORWAYS) = 264.8 X 8' = 2,184 SF REQUIRED  
 PROVIDED: 2,406 SF  
 REQUIRED: 1 U/S TREE/15' OR 1 CANOPY TREE /25' = 17.7 OR 18 TREES  
 PROVIDED: 2 NEW CANOPY + 17 NEW U/S TREE @ 15' = 285', THEREFORE, OKAY

ALL SHRUB AND GROUND COVER SHALL BE 2' BACK FROM PARKING STALL. PROVIDE MULCH IN THIS AREA.



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 10262 S. JOHN YOUNG PKWY  
 ORLANDO, FL 32837



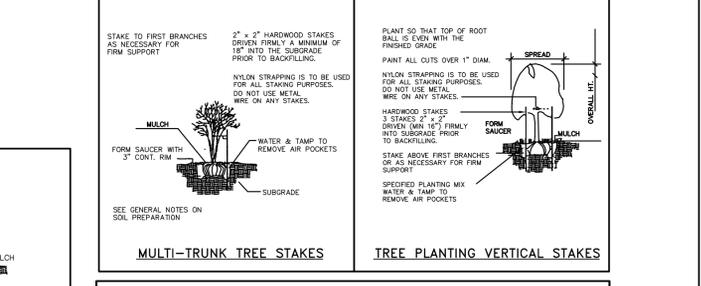
5127 S. Orange Avenue, Suite 200  
 Orlando, FL 32809  
 Phone: 407-895-0324  
 Fax: 407-895-0325  
 www.feg-inc.us

**SITE LANDSCAPE PLAN**

DESIGNED BY RTA  
 DRAWN BY SMH  
 CHECKED BY RTA  
 APPROVED BY SJS

FLORIDA NATIVE LANDSCAPE SCHEDULE						
SYMBOL	CANOPY TREES					
	ABR.	BOTANICAL NAME	COMMON NAME	MINIMUM SIZE	QUANTITY	REMARKS
QV	QUERCUS VIRGINIANA 'CATHEDRAL'	CATHEDRAL LIVE OAK	12' HT. 3" CAL. MIN. 5" C.T. 65 GAL.	13	SINGLE STRAIGHT TRUNK	Y
UP	ULMUS PARVIFOLIA	DRAKE ELM	12' HT. 3" CAL. MIN. 5" C.T. 30 GAL.	17	SINGLE STRAIGHT TRUNK	Y
AR	ACER RUBRUM	RED MAPLE	3" CAL. 12' HT.	10	SINGLE STRAIGHT TRUNK	Y
IC	ILEX CASSINE	DAHOON HOLLY	8"-10" HT. 3" CAL. MIN.	32	MULTI TRUNK	Y
PALM TREES						
FP	WODYETIA BIFURCATA	FOXTAIL PALM	15'-18" HT. C.T.	16	SINGLE STRAIGHT TRUNK	Y
SHRUBS						
VB	VIBURNUM ODO RATISSIMUM	VIBURNUM	7 GAL. 36" HT. 36" O.C.	238	FULL	Y
HP	HAMELIA PATENS 'COMPACTA'	DWARF FIREBUSH	5 GAL. 15" HT. 30" O.C.	43	FULL	Y
PM	PODOCARPUS MACROPHYLLUS	PODOCARPUS	7 GAL. 24"-30" 36" O.C.	38	FULL	N
LC	LOROPETALUM CHINENSE	LOROPETALUM	5 GAL. 24" HT. 36" O.C.	5	FULL	Y
MU	MUHLENBERGIA CAPILLARIS	MUHLY GRASS	5 GAL. 12"x12" 30" O.C.	79	FULL	Y
GROUNDCOVER						
LS	LIRIOPE MUSCARI EVERGREEN GIANT	E.G. LIRIOPE	1 GAL. 12" O.C.	863		
ZP	COONTIE	ZAMIA PUMILA	5 GAL. 18" O.C.	378		
JS	JUNIPERUS CHINENSIS	PARSONS JUNIPER	7 GAL. 24" SPRD. 2" O.C.	615	FULL	N
MF	MYRCIANTHUS FRAGRANS	SIMPSON'S STOPPER	7 GAL. 36" HT. MIN. 30" O.C.	84	FULL	Y
IV	ILEX VOMITORIA	SCHILLINGS DWARF	3 GAL. 12"x15" 30" O.C.	342	FULL	Y
SOD/MULCH/MISC.						
SOD	BAHIA HYBRID			QTY. BY CONTRACTOR		

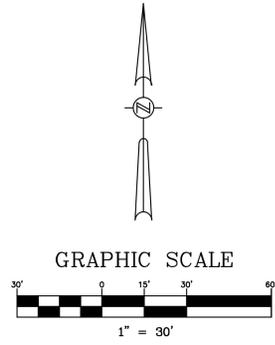
\*NO MORE THAN 60% OF ALL LANDSCAPE AREA CAN BE SOD.  
**LANDSCAPE ARCHITECT CERTIFICATION**  
 THE LANDSCAPE PLAN IS DESIGNED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF CHAPTER 24 OF THE ORANGE COUNTY LAND DEVELOPMENT CODE. THE IRRIGATION SYSTEM HAS BEEN DESIGNED AND WILL BE INSTALLED IN CONFORMANCE WITH CHAPTER 37, SECTIONS 601-613 OF THE ORANGE COUNTY LAND DEVELOPMENT CODE. FLORIDA FRIENDLY LANDSCAPING PRINCIPLES ARE USED FOR THIS PROJECT.



**SITE NOTE:**  
 ALL CONSTRUCTION DETAILS ARE CONCEPTUAL AND SUBJECT TO REVIEW AND MODIFICATION DURING THE APPROVAL OF FINAL CONSTRUCTION PLANS.

PROJECT NO. 23-022  
 SCALE 1"=30'  
 DATE DECEMBER 7, 2023  
 SHEET NO. L-1  
 SHEET 15 OF 16

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY: RICK ABBT  
 ON February 14, 2024 USING A DIGITAL SIGNATURE.  
 PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



IRRIGATION MAIN SHOWN OUTSIDE SITE LIMITS FOR CLARITY ONLY. INSTALL IRRIGATION MAIN WITHIN THE PROPERTY LIMITS. CONNECT MAIN TO EXISTING IRRIGATION SUPPLY LOCATION. VERIFY IRRIGATION MAIN POINT OF CONNECTION SIZE AND LOCATION.

Tract "A" (Conservation)

IRRIGATION MAIN SHOWN OUTSIDE SITE LIMITS FOR CLARITY ONLY. INSTALL IRRIGATION MAIN WITHIN THE PROPERTY LIMITS. CONNECT MAIN TO EXISTING IRRIGATION SUPPLY LOCATION. VERIFY IRRIGATION MAIN POINT OF CONNECTION SIZE AND LOCATION.

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### IRRIGATION NOTES:

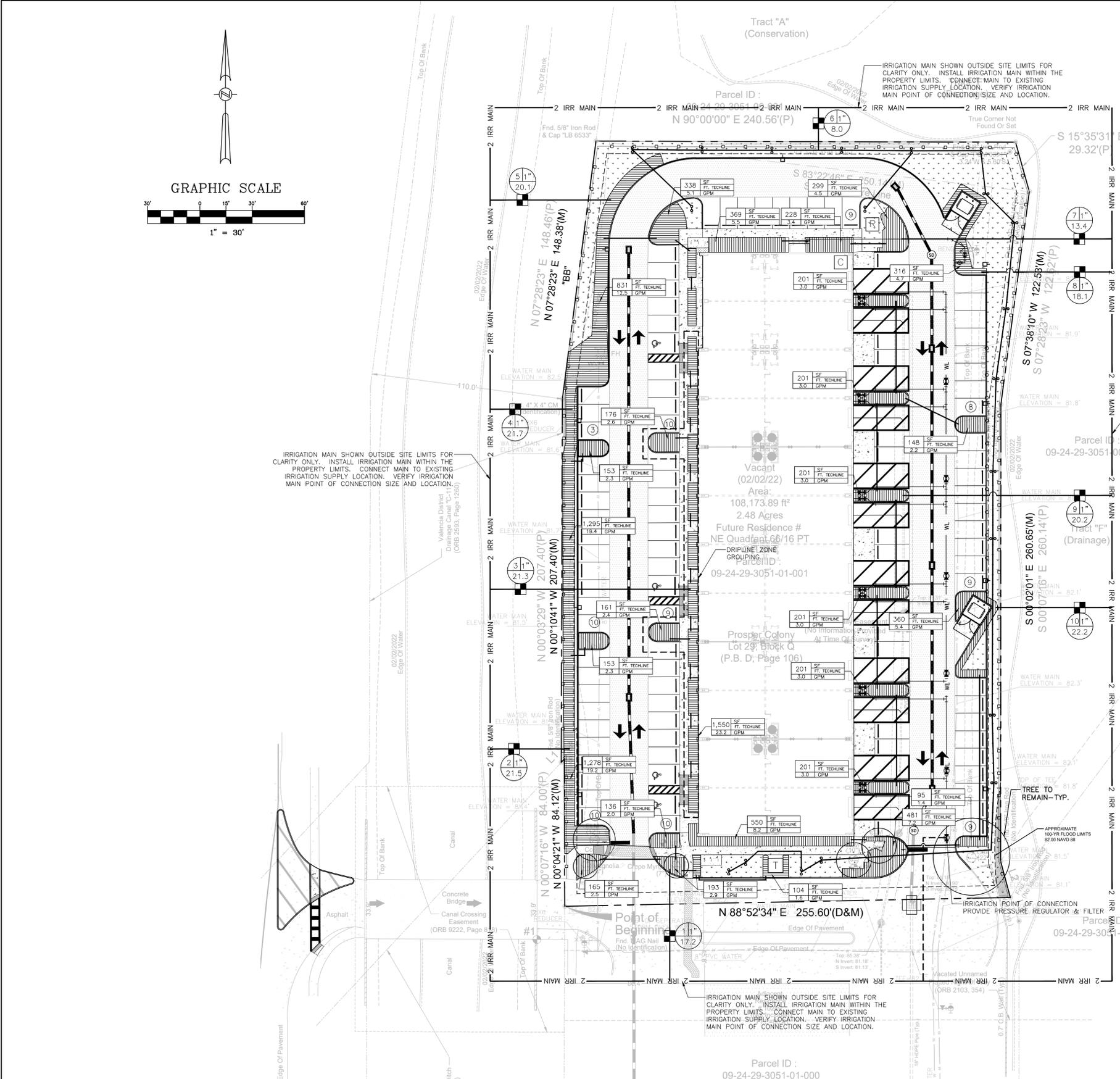
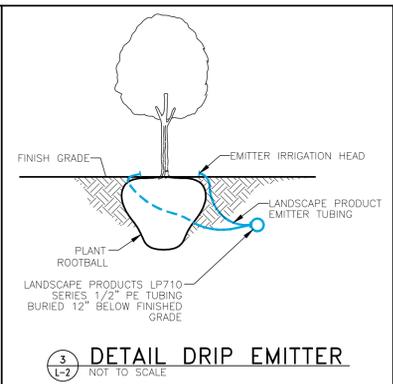
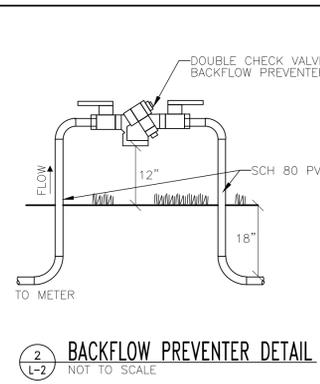
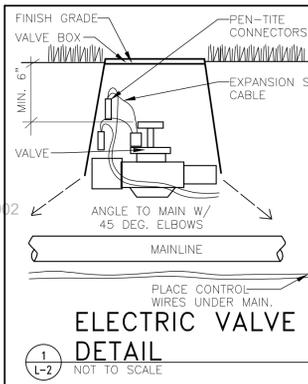
- CONTRACTOR SHALL INSTALL A COMPLETE IRRIGATION SYSTEM WHICH PROVIDES 100% COVERAGE OF ALL PLANTED AREAS PROVIDE ALL PIPING, VALVES, VALVE BOXES, & WIRING AS REQUIRED FOR A COMPLETE & OPERATIONAL IRRIGATION SYSTEM.
- ALL IRRIGATION PIPING WHICH IS LOCATED UNDER PAVEMENT SHALL BE ENCASED IN A SLEEVE TWO SIZES LARGER THAN THE IRRIGATION LINE.
- CONTRACTOR TO PROVIDE A DOUBLE DETECTOR CHECK VALVE AT THE POINT OF WATER SERVICE IN ADDITION TO AN IRRIGATION METER. COORDINATE LOCATION WITH OTHER UTILITIES & GENERAL CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY & ALL PERMITS REQUIRED FOR THE INSTALLATION OR CONSTRUCTION OF THE WORK INCLUDED IN THIS CONTRACT.
- COORDINATE LOCATION OF IRRIGATION CONTROLLER WITH OWNER & GENERAL CONTRACTOR.
- PROVIDE A RAIN SWITCH EQUIVALENT TO TORO RAIN SWITCH #850-74. MOUNT ON BUILDING IN AN INCONSPICUOUS LOCATION EXPOSED TO NORMAL RAINFALL & PER MFRS. SUGGESTIONS.
- OBTAIN INSPECTION & APPROVAL OF ALL BURIED PIPING PRIOR TO BACKFILLING.
- ADJUST DESIGN OF SYSTEM WHERE NECESSARY TO AVOID CONFLICTS IN THE FIELD WITH LANDSCAPING OR UTILITY LINES.
- IRRIGATION CONTROLLER IS HUNTER IRRIGATION CONTROLLER SIZED APPROPRIATELY TO SUPPORT THE SYSTEM DESIGN. GET APPROVAL FROM OWNER PRIOR TO INSTALLATION. COORDINATE WITH CONTRACTOR FOR POWER REQUIREMENTS AND CONFIRM LOCATION WITH OWNER.
- PROGRAM IRRIGATION CONTROLLER TO PROVIDE 0.5 INCH OF WATER PER WEEK. SCHEDULE HEADS TO OPERATE DURING MORNING HOURS.
- ALL MAINLINE PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 18" OF COVER. ALL LATERAL PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 12" OF COVER.
- THROTTLE ALL VALVES ON SHRUB LINES AS REQUIRED TO PREVENT FOGGING.
- ALL CONTROL WIRE SPLICES SHALL BE MADE IN VALVE BOXES USING SNAP-TITE CONNECTORS & SEALANT.
- THE CONTRACTOR SHALL PREPARE AN AS-BUILT DRAWING SHOWING ALL IRRIGATION INSTALLATIONS. THE DRAWING SHALL LOCATE ALL VALVES & MAINLINES BY SHOWING EXACT MEASUREMENTS FROM HARD SURFACES OR STRUCTURES.
- ANY PIPING SHOWN OUTSIDE THE PROPERTY LINE OR RUNNING OUTSIDE A IRRIGATION AREA IS SHOWN THERE FOR CLARITY ONLY. ALL LINES SHALL BE INSTALLED ON THE PROPERTY & INSIDE THE IRRIGATION AREAS.
- ALL WORK SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE AGAINST ALL DEFECTS IN EQUIPMENT & WORKMANSHIP.
- ELECTRICAL SERVICE TO ALL EQUIPMENT SHALL BE PROVIDED TO A JUNCTION BOX AT THE EQUIPMENT LOCATION BY OTHERS.
- ALL IRRIGATION SLEEVES ARE TO HAVE BEEN INSTALLED BY GENERAL CONTRACTOR AT TIME OF UTILITY CONSTRUCTION.

### IRRIGATION LEGEND

- DRIPLINE ZONE GROUPING
- DRIP EMITTER - 2 PER TREE
- DRIPLINE ZONE VALVE
- DRIPLINE ZONE 12" ON CENTER
- SOD AREA
- CONTROLLER
- RAIN SENSOR
- PVC SLEEVE-2 SIZES LARGER
- VALVE ZONE NO. VALVE SIZE
- VALVE GPM

IRRIGATION SYSTEM IS PERMANENT

TOTAL IRRIGATED AREA = 10,585 SF  
 REQUIRED IRRIGATION = 0.5"/WEEK  
 TOTAL IRRIGATION DEMAND = 3,298 GAL/WEEK = 471 GPD  
 IRRIGATION TO BE PROVIDED THRU 1" IRRIGATION METER



DATE	REVISIONS	BY	CHECKED
02/13/2024	PER ORANGE COUNTY COMMENTS - DATED 01/03/2024	AT	SJS

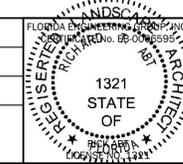
**CONSTRUCTION PLANS**  
**JOHN YOUNG COMMERCIAL BUILDING**  
 10262 S. JOHN YOUNG PKWY  
 ORLANDO, FL 32837



5127 S. Orange Avenue, Suite 200  
 Orlando, FL 32809  
 Phone: 407-895-0324  
 Fax: 407-895-0325  
 www.feg-inc.us

SITE IRRIGATION PLAN			
DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
RTA	SMH	RTA	SJS

PROJECT NO. 23-022  
 SCALE 1"=30'  
 DATE DECEMBER 7, 2023  
 SHEET NO. L-2  
 SHEET 16 OF 16



THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY:  
 RICK ABT  
 ON February 14, 2024 USING A DIGITAL SIGNATURE.  
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# SECTION VII

# SECTION A

**Customer Call Log - Valencia Water Control District**

<b>Date</b>	<b>Name</b>	<b>Subdivision</b>	<b>Address</b>	<b>Issue</b>	<b>Pond/Canal Name</b>	<b>Resolution</b>	<b>Date Resolved</b>
1/19/24	Sara Solomon	Parkview Pointe	6036 Parkview Point Drive	Inquired about a No Trespassing sign that had been removed from District property at the access entrance to the pond and noted increased traffic to the pond.	Parkview Pointe Pond	Mr. Flint replied that the District had not removed or authorized removal of the sign and would have the area reviewed and reinstall the sign.	1/19/24
1/25/24	Michele Moradi	Parkview Pointe HOA	11554 Pumpkin Seed Court	Was contacted by a resident that expressed they did not want a No Trespassing sign placed in their backyard.	Parkview Pointe Pond	Mr. Flint replied that the District was previously contacted by a resident on Parkview Pointe Drive about the sign that was removed and reported increased trespassing. A representative went out to install the sign the previous weekend and was confronted by a different resident that objected to the sign being installed. The installation was halted. Ms. Moradi advised the objecting resident lived on Pumpkin Seed Ct. Mr. Flint advised that if HOA was not aware of any trespassing issues, that the District would not pursue the insallation of the sign.	1/26/24
1/26/24	Michael Vincent	Waterview Reserve	5309 Shingle Creek Drive	Sent an e-mail with pictures of several areas of concern related to District maintenance areas (concrete spillway, weeds/grass, concrete bags, fish stocking).	Area No. 2 Pond	Mr. Flint reviewed the areas in question and sent a detailed e-mail to the resident addressing each of his areas of concern. Also asked the aquatic management and mowing vendors to look at some of the areas of concern to do necessary treatments/remedies.	2/2/24

# SECTION B

# Ethics Training Requirements

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As of January 1, 2024, all Board Supervisors of Florida Community special districts are required to complete four (4) hours of ethics training each year that addresses at a minimum, s. 8, Art. II of the State Constitution, the Code of Ethics for Public Officers and Employees, and the public records and public meetings laws of Florida. The purpose of this email is to notify you of free, on-demand resources available to Board Supervisors to satisfy this requirement. Further information regarding the requisite training is available on the Florida Commission on Ethics' ("COE") website.

## Free Training Resources

The COE has produced several free, online training tutorials that will satisfy the ethics component of the annual training. The on-demand videos are available at the link below. Further, the website provides additional links to resources that Supervisors can access to complete the training requirements.

Florida Commission on Ethics Training Resources -  
<https://ethics.state.fl.us/Training/Training.aspx>

Please note that the COE-produced content only provides free training for the ethics component of the annual training. However, the Office of the Attorney General of the State of Florida offers a free, two-hour online audio course that covers the Sunshine Law and Public Records Act components of the requisite training. The on-demand audio course is available at the link below.

Office of the Attorney General Training Resources –  
<https://www.myfloridalegal.com/open-government/training>

## Compliance

Each year when Supervisors complete the required financial disclosure form (Form 1 Statement of Financial Interests), Supervisors must mark a box confirming that he or she has completed the ethics training requirements. At this time there is no requirement to submit a certificate; however, the COE advises that Supervisors keep a record of all trainings completed (including date and time of completion), in the event Supervisors are ever asked to provide proof of completion. The training is a calendar year requirement and corresponds to the form year. So, Supervisors will not report their 2024 training until they fill out their Form 1 for the 2025 year.

We have received multiple inquiries as to whether Board Supervisors are required to annually file Form 6 in addition to Form 1. Currently, Board Supervisors continue to be exempt from the requirement to file Form 6.

Finally, with respect to the annual filing of Form 1, beginning this year the Commission on Ethics will be requiring electronic submission of Form 1. Filers, including Board Supervisors, should be receiving an email directly from the Commission on Ethics, providing detailed information about the electronic filing process and the upcoming deadline of July 1, 2024. Note the submission of the forms will no longer be handled through county Supervisor of Election's offices.

**BUDGET REVIEW COMMITTEE  
MEETING**

# AGENDA

# **AGENDA**

March 12, 2024

## **VALENCIA WATER CONTROL DISTRICT BUDGET REVIEW COMMITTEE MEETING**

**FOLLOWING 1 P.M. BOARD OF SUPERVISORS MEETING  
LAKE RIDGE VILLAGE CLUBHOUSE**

### **Item**

1. Call Budget Review Committee Meeting to Order
2. Public Comment Period
3. Acknowledge Notice of Meeting Proof of Publication
4. Review Proposed Fiscal Year 2024-2025 Budget and Setting Public Hearing
5. Adjourn Budget Review Committee Meeting

# SECTION III

Published Daily  
ORANGE County, Florida

**Sold To:**

Valencia Water Control District - CU00121643  
219 E. Livingston Street  
Orlando, FL 32801

**Bill To:**

Valencia Water Control District - CU00121643  
219 E. Livingston Street  
Orlando, FL 32801

**State Of Florida  
County Of Orange**

Before the undersigned authority personally appeared  
Rose Williams, who on oath says that he or she is a duly authorized  
representative of the ORLANDO SENTINEL, a DAILY newspaper  
published in ORANGE County, Florida; that the attached copy of  
advertisement, being a Legal Notice in:

The matter of 11150-Public Hearing Notice  
Was published in said newspaper by print in the issues of, or by publication  
on the newspaper's website, if authorized on Mar 05, 2024.

Affiant further says that the newspaper complies with all legal requirements  
for publication in Chapter 50, Florida Statutes.



**Rose Williams**

Signature of Affiant

Name of Affiant

Sworn to and subscribed before me on this 6 day of March, 2024,  
by above Affiant, who is personally known to me (X) or who has produced identification ( ).



Signature of Notary Public



Name of Notary, Typed, Printed, or Stamped

**IN THE CIRCUIT COURT NINTH JUDICIAL  
CIRCUIT, IN AND FOR ORANGE  
COUNTY, FLORIDA CASE NO. 70-125**

**IN RE: VALENCIA WATER CONTROL DISTRICT  
TO ALL OWNERS OF LAND WITHIN VALENCIA  
WATER CONTROL DISTRICT**

YOU ARE HEREBY NOTIFIED that, pursuant to Section 189.417, Florida Statutes, a Budget Review Committee Meeting has been scheduled for March 12, 2024 following the regular 1:00 pm monthly meeting to be held at the Lake Ridge Village Clubhouse, 10630 Larissa Street, Orlando, FL 32821. The purpose of the meeting is to review financial information in order to establish the 2024-2025 fiscal year budget.

"Persons are advised that if they decide to appeal any decisions made at these meetings/hearings, they will need a record of the proceedings and for such purpose they may need to ensure that a verbatim record of the proceedings is made which includes the testimony and evidence upon which the appeal is to be based, per section 298.0105, Florida Statutes."

"In accordance with the Americans with Disabilities Act, persons with disabilities needing a special accommodation should contact Valencia Water Control District at (407) 841-5524 x 101, not later than seven (7) days prior to the meeting."

Dated: February 29, 2024  
Tiffany Moore Russell, Clerk of the  
Circuit Court

7595253

3/5/2024

7595253

# SECTION IV

***Valencia***  
***Water Control District***

***Proposed Budget***  
***FY2025***



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 Capital Reserve Fund

**Valencia**  
**Water Control District**  
**Proposed Budget**  
**FY2025**  
**General Fund**

	Adopted Budget FY2024	Actual Thru 2/29/24	Projected Next 7 Months	Total Projected 9/30/24	Proposed Budget FY2025
<b>Revenues:</b>					
Assessments - Tax Roll	\$ 552,179	\$ 367,810	\$ 184,369	\$ 552,179	\$ 607,379
Interest	\$ 2,000	\$ 991	\$ 1,009	\$ 2,000	\$ 2,000
<b>Total Revenues</b>	<b>\$ 554,179</b>	<b>\$ 368,801</b>	<b>\$ 185,378</b>	<b>\$ 554,179</b>	<b>\$ 609,379</b>
<b>Expenditures:</b>					
<b>Administrative:</b>					
Supervisor Fees	\$ 2,500	\$ 300	\$ 1,500	\$ 1,800	\$ 2,500
Engineering Fees	\$ 37,200	\$ 10,390	\$ 21,800	\$ 32,190	\$ 37,200
Attorney Fees	\$ 12,000	\$ 5,000	\$ 7,000	\$ 12,000	\$ 12,000
Annual Audit	\$ 5,200	\$ -	\$ 5,200	\$ 5,200	\$ 5,200
Assessment Roll Certification	\$ 5,000	\$ 5,000	\$ -	\$ 5,000	\$ 5,000
Management Fees	\$ 53,280	\$ 22,200	\$ 31,080	\$ 53,280	\$ 55,944
Information Technology	\$ 1,800	\$ 750	\$ 1,050	\$ 1,800	\$ 1,800
Website Maintenance	\$ 1,200	\$ 500	\$ 700	\$ 1,200	\$ 1,200
Insurance	\$ 14,400	\$ 13,614	\$ -	\$ 13,614	\$ 14,400
Report Preparation - NPDES	\$ 15,000	\$ 533	\$ 6,968	\$ 7,500	\$ 15,000
Office Lease/Storage	\$ 3,000	\$ 1,080	\$ 1,512	\$ 2,592	\$ 3,000
Printing & Binding	\$ 500	\$ 154	\$ 346	\$ 500	\$ 500
Postage	\$ 600	\$ 248	\$ 352	\$ 600	\$ 600
Legal Advertising	\$ 2,500	\$ -	\$ 2,500	\$ 2,500	\$ 2,500
Bank Fees	\$ 600	\$ 195	\$ 280	\$ 475	\$ 600
Other Current Charges	\$ 400	\$ -	\$ 200	\$ 200	\$ 400
Office Supplies	\$ 350	\$ 37	\$ 88	\$ 125	\$ 350
Election Fees	\$ 4,250	\$ -	\$ 5,450	\$ 5,450	\$ 5,500
Meeting Rental Fee	\$ 500	\$ 100	\$ 300	\$ 400	\$ 500
Property Appraiser Fee	\$ 5,417	\$ -	\$ -	\$ -	\$ 5,417
Dues, Licenses & Subscriptions	\$ 1,675	\$ 175	\$ 2,000	\$ 2,175	\$ 2,175
<b>Total Administrative:</b>	<b>\$ 167,372</b>	<b>\$ 60,276</b>	<b>\$ 88,325</b>	<b>\$ 148,601</b>	<b>\$ 171,786</b>
<b>Operations &amp; Maintenance</b>					
Contracts:					
Aquatic Weed Control	\$ 40,000	\$ 11,610	\$ 16,255	\$ 27,865	\$ 40,000
Mowing	\$ 98,289	\$ 20,483	\$ 95,346	\$ 115,829	\$ 130,000
Tree Trimming	\$ -	\$ -	\$ -	\$ -	\$ 40,000
Water Quality Monitoring	\$ 19,746	\$ 4,937	\$ 11,519	\$ 16,455	\$ 19,746
Repairs & Maintenance:					
Canal & Retention Pond Maintenance	\$ 40,000	\$ 1,000	\$ 19,000	\$ 20,000	\$ 20,000
Security Gates & Signs	\$ 750	\$ -	\$ 375	\$ 375	\$ 750
NPDES Inspection & Fees	\$ 6,000	\$ 1,875	\$ 1,000	\$ 2,875	\$ 6,000
Operating Supplies	\$ 500	\$ -	\$ 250	\$ 250	\$ 500
Contingency	\$ 2,500	\$ -	\$ 1,250	\$ 1,250	\$ 2,500
<b>Total Operations &amp; Maintenance:</b>	<b>\$ 207,785</b>	<b>\$ 39,904</b>	<b>\$ 144,994</b>	<b>\$ 184,899</b>	<b>\$ 259,496</b>

**Valencia**  
**Water Control District**  
Proposed Budget  
**FY2025**  
General Fund

	Adopted Budget FY2024	Actual Thru 2/29/24	Projected Next 7 Months	Total Projected 9/30/24	Proposed Budget FY2025
<b>Capital Improvements</b>					
Transfer Out - Capital Reserve	\$ 245,392	\$ 245,392	\$ -	\$ 245,392	\$ 178,097
<b>Total Reserves</b>	<b>\$ 245,392</b>	<b>\$ 245,392</b>	<b>\$ -</b>	<b>\$ 245,392</b>	<b>\$ 178,097</b>
<b>Total Expenditures</b>	<b>\$ 620,549</b>	<b>\$ 345,573</b>	<b>\$ 233,319</b>	<b>\$ 578,892</b>	<b>\$ 609,379</b>
<b>Excess Revenues (Expenditures)</b>	<b>\$ (66,370)</b>	<b>\$ 23,228</b>	<b>\$ (47,941)</b>	<b>\$ (24,713)</b>	<b>\$ (0)</b>
<b>Fund Balance - Beginning</b>	<b>\$ 66,370</b>	<b>\$ 160,900</b>	<b>\$ -</b>	<b>\$ 160,900</b>	<b>\$ -</b>
<b>Fund Balance - Ending</b>	<b>\$ -</b>	<b>\$ 184,128</b>	<b>\$ (47,941)</b>	<b>\$ 136,187</b>	<b>\$ (0)</b>

	Maintenance Tax FY2024	Maintenance Tax FY2025
<b>Net Assessment</b>	<b>\$552,179</b>	<b>\$607,379</b>
Collection Cost (5%)*	\$29,062	\$31,967
<b>Gross Assessment</b>	<b>\$581,241</b>	<b>\$639,346</b>
Number of Units	9448	9448
<b>Total Levy</b>	<b>\$61.52</b>	<b>\$67.67</b>

Collection percentage is total of 3% Tax Collector Discount Fee & 2% Collection Fee

# Valencia

## Water Control District

General Fund

**REVENUES:**

Assessments – Tax Collector

The District will levy a non-ad valorem assessment on all the assessable property within the District to fund all general operating and maintenance expenditures during the fiscal year. These assessments are billed on tax bills.

---

**EXPENDITURES:**

**Administrative:**

Supervisors Fees

Chapter 190, Florida Statutes, allows for each Board member to receive compensation per meeting. Each Supervisor is paid for the time devoted to District business and meetings. The amount is based on 5 supervisors attending 10 meetings during the fiscal year.

Engineering

The District's engineer, CPH, Inc., will be providing general engineering services to the District, e.g. attendance and preparation for monthly board meetings, preparation and review of contract specifications and bid documents, and various projects assigned as directed by the Board of Supervisors and the District Manager.

Description	Monthly	Annual
Engineering Services	\$2,100	\$25,200
Contingency		\$12,000
<b>Total</b>		<b>\$37,200</b>

Attorney

The District's legal counsel, Stephen F. Broome, P.A., will be providing general legal services to the District, e.g. attendance and preparation for monthly meetings, preparation and review of agreements and resolutions, and other research assigned as directed by the Board of Supervisors and the District Manager.

Description	Monthly	Annual
Attorney Fees	\$1,000	\$12,000
<b>Total</b>		<b>\$12,000</b>

Annual Audit

The District is required by Florida Statutes to arrange for an independent audit of its financial records on an annual basis. The District has contracted with McDirmit, Davis for this service.

Assessment Administration

The District has contracted with Governmental Management Services-Central Florida, LLC to levy and administer the collection of non-ad valorem assessment on all assessable property within the District.

# Valencia

## Water Control District

General Fund

### Management Fees

The District has contracted with Governmental Management Services-Central Florida, LLC to provide Management, Accounting and Recording Secretary Services for the District. The services include, but not limited to, recording and transcription of board meetings, budget preparation, all financial reporting, annual audit, etc.

### Information Technology

The District has contracted with Governmental Management Services-Central Florida, LLC for costs related to District's information systems, which include but are not limited to video conferencing services, cloud storage services and servers, security, positive pay implementation and programming for fraud protection, accounting software, etc.

### Website Maintenance

The District has contracted with Governmental Management Services-Central Florida, LLC for the costs associated with monitoring and maintaining the District's website created in accordance with Chapter 189, Florida Statutes. These services include site performance assessments, security and firewall maintenance, updates, document uploads, hosting and domain renewals, website backups, etc.

### Insurance

The District's general liability and public officials liability insurance coverage is provided by Florida Insurance Alliance (FIA). FIA specializes in providing insurance coverage to governmental agencies.

### Report Preparation - NPDES

Represents estimated costs for preparation of NPDES reports and compliance requirements.

### Office Lease/Storage

Represents estimated fees to maintain District records at storage facility located within Orange County near District.

### Printing & Binding

Printing and Binding agenda packages for board meetings, printing of computerized checks, stationary, envelopes etc.

### Postage

The District incurs charges for mailing of agenda packages, overnight deliveries, checks for vendors and other required correspondence.

### Legal Advertising

The District is required to advertise various notices for monthly Board meetings, public hearings, etc. in a newspaper of general circulation.

### Bank Fees

Represents monthly fees charged by Truist Bank for the District's operating account.

**Valencia**  
**Water Control District**  
 General Fund

Other Current Charges

Represents any miscellaneous administrative expenses incurred during the fiscal year.

Office Supplies

The District incurs charges for office supplies that need to be purchased during the fiscal year.

Election Fees

Represents estimated costs for mass printing, postage & mailing of annual election proxies.

Meeting Rental Fee

Represents reservation fee paid to Lake Ridge Village Club Association for monthly meetings at onsite community center.

Property Appraiser Fee

Represents a fee charged by Orange County Property Appraiser's office for assessment administration services.

Dues, Licenses & Subscriptions

The District is required to pay an annual fee to the Florida Department of Economic Opportunity for \$175. This is the only expense under this category for the District.

**Operating and Maintenance:**

Aquatic Weed Control

Represents cost for maintenance to all canals and retention/detention ponds located within the District. Services include furnishing personnel, equipment, and herbicides to effectively control the excessive weed growth and as needed, supply triploid carp grass. The District has contracted with Aquatic Weed Control, Inc. for these services.

Description	Monthly	Annual
Aquatic Weed Control	\$2,554	\$30,651
Contingency (Triploid Grass Carp)		\$9,349
<b>Total</b>		<b>\$40,000</b>

# Valencia

## Water Control District

General Fund

Mowing

The District will maintain the canal and detention pond mowing within the District. Areas included are the C-1, C-3, C-4, C-5, C-6, C-10, C-11 & C-12 canals as well as ponds in the subdivisions of Greenbriar, Lakeridge, Waterview, Somerset, Deer Creek, Parkview Terrace, Parkview North, Parkview Pointe and Windsor Walk Villages. The District has contracted with Sthern Environmental, Inc. for this service.

Description	Monthly	Annual
Short Mowing (7 per year)	\$5,921	\$41,448
Long Mowing (6 per year)	\$14,280	\$85,677
Contingency		\$2,875
<b>Total</b>		<b>\$130,000</b>

Tree Trimming

Represents estimated costs for tree trimming within District maintained areas.

Water Quality Monitoring

Represents costs for the monthly water quality testing. District has contracted with Eurofins Environment Testing f/k/a Flowers Chemical Laboratories.

Description	Monthly	Annual
Water Quality Testing	\$1,646	\$19,746
<b>Total</b>		<b>\$19,746</b>

Canal & Retention Pond Maintenance

Represents monthly AMIL gate and discharge structures maintenance and recording along with estimated costs for non-capital project repairs.

Description	Monthly	Annual
AMIL Gate & Discharge Structure Maintenance & Recording	\$1,000	\$12,000
Contingency (Misc. Repairs)		\$8,000
<b>Total</b>		<b>\$20,000</b>

Security Gates & Signs

Represents estimated costs for the purchase and installation of any signs, i.e., no fishing, no trespassing, and/or repairs to the District's security gates.

**Valencia**  
**Water Control District**  
General Fund

NPDES Inspection & Fees

Represents annual fees paid to State of Florida Department of Environmental Protection and Orange County Environmental Protection Division as well as any inspection fees.

<b>Description</b>	<b>Annual</b>
Water Atlas Maintenance Fee	\$1,000
Regulatory Program & Surveillance Fee	\$1,875
Contingency (Inspections)	\$3,125
<b>Total</b>	<b>\$6,000</b>

Operating Supplies

Represents estimated costs for the purchases of operating supplies.

Contingency

Represents any additional field expense that may not have been provided for in the budget.

Transfer Out - Capital Reserve

Represents funds to transferred to the Capital Reserve fund.

**Valencia**  
**Water Control District**  
Proposed Budget  
**FY2025**  
Capital Reserve Fund

	Adopted Budget FY2024	Actual Thru 2/29/24	Projected Next 7 Months	Total Projected 9/30/24	Proposed Budget FY2025
<b>Revenues:</b>					
Transfer In	\$ 245,392	\$ 245,392	\$ -	\$ 245,392	\$ 178,097
Interest	\$ 35,000	\$ 18,863	\$ 26,000	\$ 44,863	\$ 36,000
<b>Total Revenues</b>	<b>\$ 280,392</b>	<b>\$ 264,255</b>	<b>\$ 26,000</b>	<b>\$ 290,255</b>	<b>\$ 214,097</b>
<b>Expenditures:</b>					
Contingency	\$ 600	\$ 192	\$ 280	\$ 472	\$ 500
Capital Improvements	\$ 119,181	\$ 42,918	\$ 330,326	\$ 373,244	\$ 230,715
<b>Total Expenditures</b>	<b>\$ 119,781</b>	<b>\$ 43,110</b>	<b>\$ 330,606</b>	<b>\$ 373,716</b>	<b>\$ 231,215</b>
<b>Excess Revenues (Expenditures)</b>	<b>\$ 160,611</b>	<b>\$ 221,145</b>	<b>\$ (304,606)</b>	<b>\$ (83,461)</b>	<b>\$ (17,118)</b>
<b>Fund Balance - Beginning</b>	<b>\$ 1,066,244</b>	<b>\$ 1,067,757</b>	<b>\$ -</b>	<b>\$ 1,067,757</b>	<b>\$ 984,296</b>
<b>Fund Balance - Ending</b>	<b>\$ 1,226,855</b>	<b>\$ 1,288,902</b>	<b>\$ (304,606)</b>	<b>\$ 984,296</b>	<b>\$ 967,178</b>

**Valencia**  
**Water Control District**  
**Proposed Budget**  
**FY2025**  
**Capital Reserve Fund**

Capital Improvement Projects Fiscal Year 2024	
Description	Updated Cost
Canal 12 South Bank Swale Regrading	\$42,918.00
S501 Stormwater Control Structure	\$50,174.00
C-5 Canal Dredge & Repair to Bottom of Bank	\$280,152.09
<b>Total</b>	<b>\$373,244.09</b>

Capital Improvement Projects Fiscal Year 2025	
Description	Estimated Cost
Canal C-11 & S-1101 Raise Bank Elevation	\$137,633.15
C-10 Canal - Bank at Bend - West of Orangewood	\$93,081.00
<b>Total</b>	<b>\$230,714.15</b>

Capital Improvement Projects Fiscal Year 2026	
Description	Estimated Cost
Canal C-11 - Canal Restoration at S-1102 (Taft-Vineland Road by South Center)	\$60,478.50
<b>Total</b>	<b>\$60,478.50</b>

Capital Improvement Projects Fiscal Year 2027	
Description	Estimated Cost
C-10 Bank Restoration - Behind Office	\$22,195.00
C-10 Canal - Overflow Weir at S-901 - Erosion/ Undermining of Overflow Weir	\$41,917.50
<b>Total</b>	<b>\$64,112.50</b>

Capital Improvement Projects Fiscal Year 2028	
Description	Estimated Cost
Canal C-12 - Swale Regrading, Underdrain Installation (West of Woodway Drive)	\$125,797.06
Deer Creek Pond 4 - Structure Repair	\$1,725.00
<b>Total</b>	<b>\$127,522.06</b>

<b>Combined Total</b>	<b>\$856,071.30</b>
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