



**Sunshine**  
Water Control District

# **REGULAR MEETING AGENDA**

**November 8, 2023**

**SUNSHINE  
WATER CONTROL DISTRICT**

**AGENDA  
LETTER**



November 1, 2023

Board of Supervisors  
Sunshine Water Control District

**ATTENDEES:**  
Please identify yourself each time you speak to facilitate accurate transcription of meeting minutes.

Dear Board Members:

The Board of Supervisors of the Sunshine Water Control District will hold a Regular Meeting on November 8, 2023 at 6:30 p.m., at the Sartory Hall, 10150 NW 29th Street, Coral Springs, Florida 33065. The agenda is as follows:

1. Call to Order
2. Roll Call
3. Pledge of Allegiance
4. Public Comments **[3-Minute Time Limit]** *(Comments should be made from the microphone to ensure recording. Please state your name prior to speaking.)*
5. Consideration of Resolution 2024-01, Authorizing the District Manager to Retroactively Extend the Agreement with Phillips & Jordan, Incorporated for the Provision of Disaster Debris Removal and Disposal Services for a Period of One Year; and Providing for an Effective Date
6. Consideration of Resolution 2024-02, Authorizing the District Manager to Retroactively Extend the Agreement with Rostan Solutions LLC for the Provision of Disaster Debris Monitoring and Reimbursement Management Services for a Period of One Year; and Providing for an Effective Date
7. Discussion/Consideration of 2023-2024 Legislative Representation Proposal
8. Acceptance of Unaudited Financial Statements as of September 30, 2023
9. Approval of October 11, 2023 Regular Meeting Minutes
10. Supervisors' Communications
11. Staff Reports
  - A. District Counsel: *Lewis, Longman & Walker, P.A.*

- B. District Engineer: *Craig A. Smith & Associates*
  - I. Presentation: Monthly Engineer’s Report
  - II. Permit Application(s)
    - Habitat for Humanity of Broward County [Keith Team]
- C. District Engineering Consultant: *John McKune*
- D. District Field Supervisor: *Cory Selchan*
- E. District Manager: *Wrathell, Hunt & Associates, LLC*
  - NEXT MEETING DATE: December 6, 2023 at 6:30 PM
    - QUORUM CHECK

JOE MORERA	<input type="checkbox"/>	IN PERSON	<input type="checkbox"/>	PHONE	<input type="checkbox"/>	NO
IVAN ORTIZ	<input type="checkbox"/>	IN PERSON	<input type="checkbox"/>	PHONE	<input type="checkbox"/>	NO
CAROL SMITH	<input type="checkbox"/>	IN PERSON	<input type="checkbox"/>	PHONE	<input type="checkbox"/>	NO

- 12. Public Comments
- 13. Adjournment

Should you have any questions, please contact me directly at (561) 512-9027.

Sincerely,



Jamie Sanchez  
 District Manager

**FOR BOARD MEMBERS AND STAFF TO ATTEND BY TELEPHONE**  
**CALL-IN NUMBER: 1-888-354-0094**  
**PARTICIPANT PASSCODE: 131 733 0895**

**SUNSHINE  
WATER CONTROL DISTRICT**

**5**

**RESOLUTION 2024-01**

**A RESOLUTION OF THE BOARD OF SUPERVISORS OF THE SUNSHINE WATER CONTROL DISTRICT AUTHORIZING THE DISTRICT MANAGER TO RETROACTIVELY EXTEND THE AGREEMENT WITH PHILLIPS & JORDAN, INCORPORATED FOR THE PROVISION OF DISASTER DEBRIS REMOVAL AND DISPOSAL SERVICES FOR A PERIOD OF ONE YEAR; AND PROVIDING FOR AN EFFECTIVE DATE**

WHEREAS, Rostan Solutions LLC (“Contractor”) was awarded the contract for the provision of Disaster Debris Removal and Disposal Services; and

WHEREAS, the District’s agreement with the Contractor is for a term of 3 years, with two one-year options to extend; and

WHEREAS, the District desires exercise its first option to retroactively extend the agreement for a period of one year; and

WHEREAS, such extension is in the best interest of the District and its residents.

**NOW THEREFORE, BE IT RESOLVED BY THE BOARD OF SUPERVISORS FOR THE SUNSHINE CONTROL WATER DISTRICT:**

Section 1. The above recitals are incorporated herein.

Section 2. The District Board of Supervisors hereby authorizes the District Manager to retroactively extend the existing agreement with the Contractor for a period of one (1) year, until October 26, 2024. All terms and conditions of the original contract shall remain in full force and effect.

Section 3. This resolution shall take effect upon passage by the Board of Supervisors of the Sunshine Water Control District.

**PASSED AND ADOPTED this 8th day of November, 2023.**

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Jose Morera, President

**SUNSHINE  
WATER CONTROL DISTRICT**

**6**

**RESOLUTION 2024-02**

**A RESOLUTION OF THE BOARD OF SUPERVISORS OF THE SUNSHINE WATER CONTROL DISTRICT AUTHORIZING THE DISTRICT MANAGER TO RETROACTIVELY EXTEND THE AGREEMENT WITH ROSTAN SOLUTIONS LLC FOR THE PROVISION OF DISASTER DEBRIS MONITORING AND REIMBURSEMENT MANAGEMENT SERVICES FOR A PERIOD OF ONE YEAR; AND PROVIDING FOR AN EFFECTIVE DATE**

WHEREAS, Rostan Solutions LLC (“Contractor”) was awarded the contract for the provision of disaster debris monitoring and reimbursement management services; and

WHEREAS, the District’s agreement with the Contractor is for a term of 3 years, with two one-year options to extend; and

WHEREAS, the District desires exercise its first option to retroactively extend the agreement for a period of one year; and

WHEREAS, such extension is in the best interest of the District and its residents.

**NOW THEREFORE, BE IT RESOLVED BY THE BOARD OF SUPERVISORS FOR THE SUNSHINE CONTROL WATER DISTRICT:**

Section 1. The above recitals are incorporated herein.

Section 2. The District Board of Supervisors hereby authorizes the District Manager to retroactively extend the existing agreement with the Contractor for a period of one (1) year, until August 24, 2024. All terms and conditions of the original contract shall remain in full force and effect.

Section 3. This resolution shall take effect upon passage by the Board of Supervisors of the Sunshine Water Control District.

**PASSED AND ADOPTED this 8th day of November, 2023.**

---

Jose Morera, President



**SUNSHINE  
WATER CONTROL DISTRICT**

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Reply to: Tallahassee

October 3, 2023

Sunshine Water Control District  
Attn: Joe Morera, President  
2300 Glades Road, Suite 410W  
Boca Raton, FL 33431

**CONFIDENTIAL**  
**ATTORNEY/CLIENT**  
**PRIVILEGED**

RE: 2023-2024 Legislative Representation

Dear President Morera:

On behalf of the law firm of Lewis, Longman & Walker, P.A. (“LLW”), I sincerely thank you for the opportunity to represent you on the above-referenced matter that is further defined in Section 2 of this Engagement Agreement (“Agreement”). The purpose of this Agreement is to document the terms of our professional relationship. A solid attorney-client relationship is built on a clear understanding of the terms of the relationship. Therefore, I ask that you review this letter with care and then either confirm your agreement to these terms or state any different or additional terms that you would like me to consider.

1. Client. Unless and until agreed by all parties in writing, LLW’s only client in this matter is the Sunshine Water Control District (SWCD).
2. Services. On behalf of SWCD, LLW will monitor legislative activities during interim committee weeks (7 scheduled weeks), during the 2024 Legislative Session (January 9 – March 8, 2024) and during the Governor’s action on bills (March 9 – June 30, 2024). LLW will provide SWCD with regular written reports summarizing relevant legislative activities. Upon request, LLW will provide oral updates to SWCD, schedule permitting. If SWCD desires for LLW to actively engage on legislative issues, such services will be the subject of a separate agreement. I will be the attorney in charge of this matter and will be responsible for providing and supervising the legislative services required. The legislative team will also include Lori Killinger. I will ensure that this matter is staffed in a manner adequate and appropriate to the requirements of the representation, including accessing the expertise of other LLW attorneys as needed.

**JACKSONVILLE**  
245 Riverside Ave.  
Suite 510  
Jacksonville, Florida 32202  
T: 904.353.6410  
F: 904.353.7619

**ST. PETERSBURG**  
100 Second Ave. South  
Suite 501-S  
St. Petersburg, Florida 33701  
T: 727.245.0820  
F: 727.290.4057

**TALLAHASSEE**  
106 East College Avenue  
Suite 1500  
Tallahassee, Florida 32301  
T: 850.222.5702  
F: 850.224.9242

**TAMPA**  
301 West Platt St.  
Suite A364  
Tampa, Florida 33606  
T: 813.775.2331

**WEST PALM BEACH**  
360 South Rosemary Ave.  
Suite 1100  
West Palm Beach, Florida 33401  
T: 561.640.0820  
F: 561.640.8202

Any additional matters that you may ask us to undertake must be covered by separate Engagement Agreements and will require additional conflict checks.

3. Term and Professional Fees. The term of this agreement shall be from October 1, 2023, to June 30, 2024. The fee for these services shall be \$24,000.00, payable in nine (9) monthly payments of \$2,666.66. This agreement can be terminated by either party with thirty (30) days written notice.

4. Communication and Cooperation. In order for us to serve as your counsel, it is essential that we are able to contact you, and that you respond to our requests for information or documents as expeditiously and completely as possible. We may also require client personnel be made available to meet with us in relation to representing you in this matter. Please bear in mind that if we do not obtain such cooperation, the quality of our representation may suffer and we may feel constrained to withdraw from any further work.

5. Costs. LLW will charge you for direct costs incurred on your behalf for this representation. We may advance these costs and seek reimbursement in our billings or we may, at our discretion, require you to deposit these costs with us before the costs are incurred.

6. Billing and Payment. We will bill you on a monthly basis for professional services rendered and expenses incurred in connection with this matter. You agree to pay the amount of each invoice in full within twenty (20) days of the billing date. For the convenience of our clients, LLW accepts credit card payments for invoices. Payments received will be applied to the outstanding invoices specified by the payment. If a specific invoice is not specified, the payment will be applied to the oldest outstanding invoice. If you have any questions about the invoice or if you dispute any items or any invoice, you agree to notify me in writing within fifteen (15) days of the billing date of your question or concern. If no issues are raised within this time period, the firm will assume you do not have any dispute with the invoice. Any amount of fees and costs due remaining unpaid for more than thirty (30) days from the date of billing shall bear interest at the rate of twelve (12%) percent per annum, compounded daily, until paid.

7. Default. If you fail to abide by the terms of this Agreement, you will be considered in default of this Agreement and we may terminate our representation. In the event any suit or action is brought to enforce the provisions of this Agreement in any arbitration, or administrative or judicial proceeding, the prevailing party shall be entitled to an award of reasonable attorneys' fees and costs incurred in such proceedings, including appeals.

8. Client Documents. During the course of your matter, you may provide us with original or sensitive documents such as tax records, expense records, bank records, deeds, etc. We will hold these records, in our office, during the pendency of your action. At the conclusion of your matter and after all outstanding legal fees, costs and expenses, have been paid in full, you may arrange for the return of the original documents to you. It is your responsibility to secure the return of your original or sensitive documents. If you want a copy of all the matter files you will need to pay for the organization, copying/scanning and provision of same. We will retain all documents related to

Sunshine Water Control District  
Attn: Joe Morera, President  
October 3, 2023  
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your matter for seven (7) years following the closure of your matter. At the conclusion of which the documents will be destroyed.

9. Public Records. LLW will keep and maintain public records required by you to perform the service. However, the parties agree that the nature of the retention contemplated herein does not render LLW a "public agency" within the meaning of the term in Chapter 119, Florida Statutes.

Upon request by your custodian of public records, as identified in the next section, LLW will provide the public agency with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes, or as otherwise provided by law.

For public records requests that require significant administrative time or the use of technology to fulfill, LLW will prepare an estimate of the cost of fulfilling the public records request and provide same to you in writing. If you have a policy regarding the manner of calculating charges for significant administrative time or the use of technology, LLW will follow the policy in developing the cost estimate. The policy will be attached hereto upon execution by you. If you do not have a specific policy for calculating charges for significant administrative time or the use of technology, LLW shall develop the estimate based on LLW's actual cost. Significant administrative time will be considered time in excess of 30 minutes. Labor costs shall be estimated based on 1.25 x the hourly rate of the lowest paid LLW member capable of performing the work. The cost of technology shall be estimated based on actual cost, with no mark-up.

LLW will ensure that public records maintained or created in connection with this representation that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of this Agreement term and following completion of the representation if LLW does not transfer the records to you.

Upon completion of the representation, LLW shall transfer, at no cost to you, all public records in possession of LLW related to the representation, in the format in which those records were ordinarily kept, provided that all electronic records shall be produced to you in a format that is compatible with your information technology systems. If you desire the records to be transferred in a format that is different than the above-referenced format, LLW shall prepare a cost estimate for the records conversion upon request, and provide the converted records to you upon approval of the cost estimate.

LLW shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. LLW may retain duplicate copies of non-exempt and non-confidential public records after the record copies are transferred to you.

If you receive a public records request for materials the record copies of which are maintained by LLW, you shall immediately notify LLW of the request in writing. LLW will provide the records to you, or allow the records to be inspected or copied within a reasonable time, as directed by you. If

Sunshine Water Control District  
Attn: Joe Morera, President  
October 3, 2023  
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you desire for LLW to review the records for responsiveness and/or exemption/privilege, you shall advise LLW of its desire in writing and LLW shall provide the service at the rates provided herein. If you seek for LLW to "certify" a public record, you should provide LLW with direction on the desired format of such certification along with the records request.

**IF LLW HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO LLW'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, LLW WILL CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT Please fill in contact information for the Custodian of Public Records:**

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**Telephone Number**

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**E-mail Address**

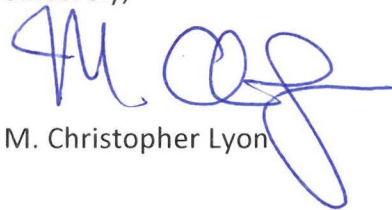
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**Mailing Address**

10. Binding and Entire Agreement. This Agreement and any concurrent attachments represent the entire Agreement between the parties, and no party is relying or is entitled to rely on any representations not expressly contained herein. In addition, no changes may be made to this Agreement without the written consent of all the parties hereto.

We sincerely thank you for choosing LLW to assist you in this most important matter. If you agree with the foregoing terms and conditions, please sign in the space provided at the bottom of this Agreement and return to me. On behalf of LLW, I look forward to assisting you in this matter.

Sincerely,



M. Christopher Lyon

Sunshine Water Control District  
Attn: Joe Morera, President  
October 3, 2023  
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**ACCEPTED BY:**

**SUNSHINE WATER CONTROL DISTRICT**

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

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

Date: \_\_\_\_\_

**SUNSHINE  
WATER CONTROL DISTRICT**

**UNAUDITED  
FINANCIAL  
STATEMENTS**

**SUNSHINE  
WATER CONTROL DISTRICT  
FINANCIAL STATEMENTS  
UNAUDITED  
SEPTEMBER 30, 2023**



**SUNSHINE  
WATER CONTROL DISTRICT  
BALANCE SHEET  
GOVERNMENTAL FUNDS  
SEPTEMBER 30, 2023**

	General Fund	Debt Service Fund Series 2021	Total Governmental Funds
<b>ASSETS</b>			
Centennial Bank	\$ 2,770,625	\$ -	\$ 2,770,625
Centennial Bank - escrow	81,275	-	81,275
DS - Series 2021	-	587,044	587,044
Investments			
State Board of Administration			
A Investment account	5,424	-	5,424
A Bank maintenance reserve account	2,841	-	2,841
A Renewal & replacement reserve account	2,114	-	2,114
A Equipment replacement reserve account	223	-	223
Centennial Bank - MMA	261,088	-	261,088
FineMark Bank - MMA	769	-	769
FineMark Bank - ICS	38,797	-	38,797
Bank United - MMA	250,000	-	250,000
Bank United - ICS	10,083,065	-	10,083,065
Iberia Bank - MMA	5,547	-	5,547
Undeposited funds	350	-	350
Due from general fund	-	11	11
Due from other sources	2,396	-	2,396
Total assets	<u>\$13,504,514</u>	<u>\$ 587,055</u>	<u>\$ 14,091,569</u>
<b>LIABILITIES</b>			
<b>Liabilities:</b>			
Retainage payable	242,277	-	242,277
Due to debt service	11	-	11
Deposits payable/trash bonds	229,500	-	229,500
Cost recovery deposits	52,878	-	52,878
Total liabilities	<u>524,666</u>	<u>-</u>	<u>524,666</u>
<b>FUND BALANCES</b>			
Assigned:			
3 months working capital	1,760,312	-	1,760,312
Disaster recovery	3,500,000	-	3,500,000
Truck replacement	180,000	-	180,000
Restricted for			
Debt service	-	587,055	587,055
Unassigned	7,539,536	-	7,539,536
Total fund balances	<u>12,979,848</u>	<u>587,055</u>	<u>13,566,903</u>
Total liabilities and fund balances	<u>\$13,504,514</u>	<u>\$ 587,055</u>	<u>\$ 14,091,569</u>

**SUNSHINE  
WATER CONTROL DISTRICT  
STATEMENT OF REVENUES, EXPENDITURES,  
AND CHANGES IN FUND BALANCES  
GENERAL FUND  
FOR THE PERIOD ENDED SEPTEMBER 30, 2023**

	Current Month	Year to Date	Adopted Budget	% of Budget
<b>REVENUES</b>				
Assessments	\$ 46	\$ 3,625,806	\$ 3,610,139	100%
Interest and miscellaneous	45,653	88,343	9,000	982%
Permit review fees	350	3,500	2,450	143%
Cost recovery	-	-	17,500	0%
Total revenues	<u>46,049</u>	<u>3,717,649</u>	<u>3,639,089</u>	102%
<b>EXPENDITURES</b>				
<b>Administrative</b>				
Supervisors	450	1,250	1,800	69%
Supervisor health care benefits	4,879	9,845	25,000	39%
Supervisors reimbursement	-	330	7,500	4%
Management/accounting/recording	5,478	65,734	65,734	100%
DSF & CPF accounting	1,280	15,355	15,355	100%
Dissemination fee	83	1,000	1,000	100%
Arbitrage rebate calculation	-	-	750	0%
Trustee	-	-	5,000	0%
Audit	-	11,500	11,500	100%
Legal	-	48,023	95,000	51%
Legal - legislative representation	-	51,750	53,100	97%
Retirement plan consulting	-	-	10,000	0%
Human resource services	630	7,557	7,557	100%
Communication	-	-	7,500	0%
Dues/subscriptions	-	4,000	4,500	89%
Rent - operations facility	4,055	48,666	48,666	100%
Insurance	-	25,118	35,440	71%
Legal advertising	944	2,217	2,500	89%
Office supplies and expenses	-	372	1,500	25%
Postage	123	1,061	1,200	88%
Postage-ROW clearing	-	-	500	0%
Printing and binding	117	1,400	1,400	100%
Website	-	1,109	3,000	37%
ADA website compliance	-	210	210	100%
Contingencies	816	6,178	5,000	124%
Total administrative expenses	<u>18,855</u>	<u>302,675</u>	<u>410,712</u>	74%
<b>Field operations</b>				
Salaries and wages	30,734	427,283	437,561	98%
FICA taxes	2,570	33,656	33,473	101%
Special pay	-	1,534	2,000	77%
Bonus program	-	5,000	2,500	200%
401a retirement plan	5,431	50,554	43,756	116%
Health insurance	24,215	284,947	325,000	88%
Workers' compensation insurance	-	13,327	15,000	89%
Engineering	5,750	30,650	100,000	31%
Engineering - capital outlay westchester	-	-	7,500	0%
Engineering - capital outlay ps1 & ps2	656	88,334	42,472	208%
Engineering - capital outlay ps1 h/s/c	175	68,052	134,000	51%
Engineering - capital outlay NW 123 ave	-	-	12,550	0%
Engineering - capital outlay Riverside drive	-	-	251,586	0%
Engineering - capital outlay University drive	-	-	89,627	0%
Engineering - telemetry	-	-	75,500	0%
Consulting engineer services	-	-	25,000	0%
Cost recovery	875	32,446	17,500	185%
Water quality testing	-	3,912	5,224	75%
Telephone	126	1,106	1,800	61%

**SUNSHINE  
WATER CONTROL DISTRICT  
STATEMENT OF REVENUES, EXPENDITURES,  
AND CHANGES IN FUND BALANCES  
GENERAL FUND  
FOR THE PERIOD ENDED SEPTEMBER 30, 2023**

	Current Month	Year to Date	Adopted Budget	% of Budget
Electric	36,641	110,550	85,000	130%
Insurance	-	60,483	55,529	109%
Repairs and maintenance				
Canal banks	54,780	54,780	75,000	73%
Canal dredging	-	-	50,000	0%
Culvert inspection & cleaning	-	4,250	100,000	4%
Dumpster service	1,024	10,143	13,000	78%
Truck, tractor and generator	2,493	14,132	21,000	67%
Other	4,351	14,091	21,000	67%
Operating supplies				
Chemicals	21,704	71,114	90,000	79%
Fuel	1,117	11,569	20,000	58%
Fuel-pump station generator	-	-	35,000	0%
Triploid carp	-	-	19,755	0%
Uniforms	217	1,550	3,217	48%
Other	2,031	5,352	4,000	134%
Permit fees, licenses, schools	-	880	5,000	18%
Capital outlay - westchester culvert	-	20,915	288,125	7%
Capital outlay - pump station 1 & 2	143,042	2,550,830	1,444,200	177%
Capital outlay - ps1 hydra/struc/canal	-	-	625,440	0%
Capital outlay - NW 123 Ave	-	-	150,000	0%
Capital outlay - Riverside drive	-	-	985,000	0%
Capital outlay - University drive	-	-	150,000	0%
Capital outlay - telemetry	-	-	340,000	0%
Field equipment	-	-	35,000	0%
Pump station telemetry	439	4,046	40,000	10%
Contingencies	-	14,270	5,000	285%
Total field operations	<u>338,371</u>	<u>3,989,756</u>	<u>6,282,315</u>	64%
<b>Other fees and charges</b>				
Tax collector	-	36,196	37,606	96%
Property appraiser	-	36,196	37,606	96%
Property tax bills - fire & EMS assessment	-	33	100	33%
Total other fees & charges	<u>-</u>	<u>72,425</u>	<u>75,312</u>	96%
Total expenditures	<u>357,226</u>	<u>4,364,856</u>	<u>6,768,339</u>	64%
Excess/(deficiency) of revenues over/(under) expenditures	(311,177)	(647,207)	(3,129,250)	
Fund balance - beginning	13,291,025	13,627,055	13,725,082	
Fund balance - ending				
Assigned:				
3 months working capital	1,760,312	1,760,312	1,760,312	
Disaster recovery	3,500,000	3,500,000	3,500,000	
Truck replacement	180,000	180,000	180,000	
Unassigned	7,539,536	7,539,536	5,155,520	
Total fund balance - ending	<u>\$ 12,979,848</u>	<u>\$ 12,979,848</u>	<u>\$ 10,595,832</u>	

**SUNSHINE  
WATER CONTROL DISTRICT  
STATEMENT OF REVENUES, EXPENDITURES,  
AND CHANGES IN FUND BALANCES  
DEBT SERVICE FUND SERIES 2021  
FOR THE PERIOD ENDED SEPTEMBER 30, 2023**

	Current Month	Year To Date	Adopted Budget	% of Budget
<b>REVENUES</b>				
Assessment levy: on-roll	\$ 11	\$ 852,157	\$ 848,359	100%
Interest	2,371	18,216	-	N/A
Total revenues	<u>2,382</u>	<u>870,373</u>	<u>848,359</u>	103%
<b>EXPENDITURES</b>				
<b>Debt service</b>				
Principal	-	470,000	470,000	100%
Interest	-	362,493	362,493	100%
Total debt service	<u>-</u>	<u>832,493</u>	<u>832,493</u>	100%
<b>Other fees and charges</b>				
Tax collector	-	8,507	8,837	96%
Property appraiser	-	8,507	8,837	96%
Total other fees and charges	<u>-</u>	<u>17,014</u>	<u>17,674</u>	96%
Total expenditures	<u>-</u>	<u>849,507</u>	<u>850,167</u>	100%
Excess/(deficiency) of revenues over/(under) expenditures	2,382	20,866	(1,808)	
Fund balances - beginning	584,673	566,189	253,407	
Fund balances - ending	<u>\$ 587,055</u>	<u>\$ 587,055</u>	<u>\$ 251,599</u>	

# SUNSHINE

Water Control District

Special Assessment Revenue Refunding Bonds, Series 2021

\$12,010,000

## Debt Service Schedule

Date	Principal	Coupon	Interest	Total P+i
11/01/2022		-	181,246.25	181,246.25
05/01/2023	470,000.00	3.050%	181,246.25	651,246.25
11/01/2023	-	-	174,078.75	174,078.75
05/01/2024	490,000.00	3.050%	174,078.75	664,078.75
11/01/2024	-	-	166,606.25	166,606.25
05/01/2025	500,000.00	3.050%	166,606.25	666,606.25
11/01/2025	-	-	158,981.25	158,981.25
05/01/2026	515,000.00	3.050%	158,981.25	673,981.25
11/01/2026	-	-	151,127.50	151,127.50
05/01/2027	530,000.00	3.050%	151,127.50	681,127.50
11/01/2027	-	-	143,045.00	143,045.00
05/01/2028	550,000.00	3.050%	143,045.00	693,045.00
11/01/2028	-	-	134,657.50	134,657.50
05/01/2029	565,000.00	3.050%	134,657.50	699,657.50
11/01/2029	-	-	126,041.25	126,041.25
05/01/2030	585,000.00	3.050%	126,041.25	711,041.25
11/01/2030	-	-	117,120.00	117,120.00
05/01/2031	600,000.00	3.050%	117,120.00	717,120.00
11/01/2031	-	-	107,970.00	107,970.00
05/01/2032	615,000.00	3.050%	107,970.00	722,970.00
11/01/2032	-	-	98,591.25	98,591.25
05/01/2033	635,000.00	3.050%	98,591.25	733,591.25
11/01/2033	-	-	88,907.50	88,907.50
05/01/2034	655,000.00	3.050%	88,907.50	743,907.50
11/01/2034	-	-	78,918.75	78,918.75
05/01/2035	675,000.00	3.050%	78,918.75	753,918.75
11/01/2035	-	-	68,625.00	68,625.00
05/01/2036	690,000.00	3.050%	68,625.00	758,625.00
11/01/2036	-	-	58,102.50	58,102.50
05/01/2037	720,000.00	3.050%	58,102.50	778,102.50
11/01/2037	-	-	47,122.50	47,122.50
05/01/2038	735,000.00	3.050%	47,122.50	782,122.50
11/01/2038	-	-	35,913.75	35,913.75
05/01/2039	760,000.00	3.050%	35,913.75	795,913.75
11/01/2039	-	-	24,323.75	24,323.75
05/01/2040	785,000.00	3.050%	24,323.75	809,323.75
11/01/2040	-	-	12,352.50	12,352.50
05/01/2041	810,000.00	3.050%	12,352.50	822,352.50
<b>Total</b>	<b>\$11,885,000.00</b>	<b>-</b>	<b>\$3,947,462.50</b>	<b>\$15,832,462.50</b>

**SUNSHINE  
WATER CONTROL DISTRICT**

**MINUTES**

**DRAFT**

**MINUTES OF MEETING  
SUNSHINE WATER CONTROL DISTRICT**

The Board of Supervisors of the Sunshine Water Control District held a Regular Meeting on October 11, 2023 at 6:30 p.m. at the Sartory Hall, 10150 NW 29th Street, Coral Springs, Florida 33065.

**Present were:**

Joe Morera	President
Ivan Ortiz	Vice President
Carol Smith	Secretary

**Also present were:**

Jamie Sanchez	District Manager
Cindy Cerbone (via telephone)	Wrathell, Hunt and Associates LLC
Seth Behn	District Counsel
Chris Lyons (via telephone)	Lewis, Longman & Walker, P.A.
Bill Capko (via telephone)	Lewis, Longman & Walker, P.A.
Orlando Rubio	District Engineer
Cory Selchan	Field Superintendent

**FIRST ORDER OF BUSINESS**

**Call to Order**

Mr. Morera called the meeting to order at 6:30 p.m.

**SECOND ORDER OF BUSINESS**

**Roll Call**

All Supervisors were present.

**THIRD ORDER OF BUSINESS**

**Pledge of Allegiance**

All present recited the Pledge of Allegiance.

**FOURTH ORDER OF BUSINESS**

**Public Comments [3-Minute Time Limit]  
(Comments should be made from the**

39 microphone to ensure recording. Please  
40 state your name prior to speaking.)  
41

42 There were no public comments.  
43

44 **FIFTH ORDER OF BUSINESS** **Discussion/Consideration of 2023-2024**  
45 **Legislative Representation Proposal**  
46

47 Mr. Lyons recalled successfully representing the District in a matter related to a local bill  
48 and his previous proposal to continue representing the District by making appropriation  
49 requests or monitoring legislative matters and providing regular written reports. Given that the  
50 Board expressed some interest in a legislative monitoring contract and set aside funds for some  
51 level of legislative representation in the Fiscal Year 2024 budget, he prepared a monitoring  
52 contract that would cover all seven weeks of the legislative session. He reviewed the 2023-2024  
53 Legislative Representation Proposal, highlighting the pertinent information and took questions.

54 In response to Ms. Smith’s question, Mr. Lyons confirmed that the proposal covers the  
55 monitoring of everything that might pertain to an Independent Special District and stated, as  
56 issues arise, the proposal will cover District-related matters such as stormwater, water and  
57 anything that affects Independent Special Districts, including pre-emptions.

58 Mr. Ortiz asked if there are any issues that the Board should start looking into or  
59 worrying about. Mr. Lyons stated, there is currently no legislation that impacts the District but  
60 he will examine the current list of bills filed and alert the Board of any local Broward County  
61 bills that might be of interest.

62 Mr. Morera stated, although he thinks there was value in retaining Mr. Lyons’ services  
63 to represent the District in Tallahassee, he is uncertain, from a return on investment (ROI)  
64 standpoint.

65 Mr. Morera noted that the City was awarded funds designated for stormwater  
66 management. He asked how the District, which is in the business of stormwater management  
67 and flood prevention, can receive some of the funds that the City will receive. Mr. Lyons stated,  
68 to request State funds, City officials must fill out very detailed forms explaining how the funds  
69 will be expended and, when and if stormwater-related funds are granted, it goes to the Florida



70 Department of Environmental Protection (FDEP), which executes a contract with the City for  
71 them to receive the funds to perform the work; unless the City, in its request, stated one of the  
72 conditions for asking and receiving the funds was to reduce the impact on the Special Districts it  
73 coordinates with, he doubted that anything can be done to coerce the City into to sharing its  
74 funds with the District. He stated the best way for the District to tap into State funds is to have  
75 a particular project that benefits its residents that the State could contribute towards. He  
76 suggested Mr. Morera confer with the two local representatives regarding sharing the proceeds  
77 to reduce the contribution from the District.

78 Mr. Morera stated that the District Board Member compensation rate has been frozen  
79 since 1963 and voiced his opinion that the compensation rate should be adjusted. He asked  
80 how Board Members can obtain reasonable compensation for their time while serving the  
81 Board. Mr. Lyons stated increasing the compensation for Sunshine Board Members would  
82 require a local bill; unfortunately, the Broward County deadline for local bills expired for this  
83 session. If the Board would like to pursue that, it would likely be an effort for the next session.

84 Ms. Sanchez stated that, if the Board wishes to proceed, there would be two motions;  
85 one to engage Mr. Lyons, based on the proposal, and another to authorize Mr. Lyons research  
86 the two items that were broached by Mr. Morera.

87 Mr. Morera stated the Board will have further discussions regarding the proposal and  
88 Mr. Lyons will be apprised of the decision.

89 **Mr. Lyons left the call.**

90 Discussion ensued regarding increasing District Board Member compensation, what  
91 other Broward County Boards are paid, whether the Board should approve the legislative  
92 monitoring agreement and an upcoming Florida Association of Special Districts (FASD) meeting.

93 The consensus was to table this item to the next meeting.

94 Mr. Behn will research current compensation studies and report his findings.

95 Ms. Sanchez will email Mr. Lyons to apprise him of the Board’s decision and invite him  
96 to the next meeting.

97

98 **SIXTH ORDER OF BUSINESS**

**Acceptance of Unaudited Financial  
Statements as of August 31, 2023**

99

100  
101 Ms. Sanchez presented the Unaudited Financial Statements as of August 31, 2023.  
102 Asked if there is anything to call out, Ms. Sanchez stated that, in conferring with Mr. Rubio and  
103 Mr. Selchan prior to the meeting, it was noted that some of the line items might have been  
104 miscoded. Staff will coordinate to ensure that the line items are coded properly. Asked which  
105 items were miscoded, Ms. Sanchez pointed to the “Repairs and maintenance” line, on Page 3,  
106 and stated “Canal banks” should be changed from \$0 to \$66,530, under the Year-to-Date  
107 column. Mr. Selchan pointed out the “Capital outlay – pump station 1 & 2” line item at 167%  
108 and the “Capital outlay – ps1 hydra/struc/canal” line item at 0%.

109  
110 **On MOTION by Ms. Smith and seconded by Mr. Ortiz, with all in favor, the**  
111 **Unaudited Financial Statements as of August 31, 2023, were accepted.**

112  
113  
114 **SEVENTH ORDER OF BUSINESS**

**Approval of September 13, 2023 Public  
Hearings and Regular Meeting Minutes**

115  
116  
117 Ms. Sanchez presented the September 13, 2023 Public Hearings and Regular Meeting  
118 Minutes. The following changes were made:

119 Line 167: Change “Mr. Santiago” to “Mrs. Santiago”

120 Line 170: Change “District website” to “Broward County SOE’s website”

121 Discussion ensued regarding a link to the Broward County SOE’s website and the specific  
122 qualification information for prospective Board Supervisors.

123  
124 **On MOTION by Ms. Smith and seconded by Mr. Ortiz, with all in favor, the**  
125 **September 13, 2023 Public Hearings and Regular Meeting Minutes, as**  
126 **amended, were approved.**

127  
128  
129 **EIGHTH ORDER OF BUSINESS**

**Supervisors’ Communications**

130  
131 Mr. Ortiz stated he was saddened to hear about Mr. Malefatto’s passing and expressed  
132 sincere condolences to Mr. Malefatto’s family and colleagues.

133 Ms. Smith echoed Mr. Ortiz’ sentiments and stated it is a tragic loss.

134 Mr. Morera asked everyone to rise and pause for a moment of silence for Mr.  
135 Malefatto, a close friend, confidante, counselor and advisor. Mr. Morera stated it is a  
136 tremendous loss and opined that Mr. Malefatto is irreplaceable and will be greatly missed.

137 Mr. Morera discussed the District's recent collaboration with Habitat for Humanity on a  
138 low-income housing project consisting of 13 homes on two lots on Riverside Drive. The project  
139 was not prepared to deal with the District's fees and requirements and the City asked for Mr.  
140 Selchan's assistance mitigating the fees to help the project come to fruition. Mr. Morera  
141 commended Mr. Selchan and Rio-Bak for doing the work required by the District to bring the  
142 project into compliance with its criteria. He expressed his disappointment that the District was  
143 barely recognized at the groundbreaking ceremony, despite donating a substantial amount of  
144 time and money to the project. He communicated his feelings in an email to the CEO of Habitat  
145 for Humanity and City Officials.

146 Mr. Morera asked about the status of Mr. Prudhomme's memorial tree. Mr. Selchan  
147 stated a check was recently remitted for the tree, which will soon be delivered, and a plaque  
148 was ordered. The memorial is in progress.

149 Mr. Behn thanked the Board and Staff for honoring Mr. Malefatto and stated he worked  
150 with Mr. Malefatto for 16 years and Mr. Malefatto encouraged him to enroll in law school and  
151 taught him that he can be an attorney and a genuinely good human being at the same time. He  
152 noted that Mr. Malefatto treated everyone with respect and kindness.

153

## 154 NINTH ORDER OF BUSINESS

### Staff Reports

155

#### 156 A. District Counsel: Lewis, Longman & Walker, P.A.

157 Mr. Behn stated the firm is committed to continuing to serve the District and designated  
158 Ms. Janice Rustin, a Board-certified attorney, to serve as District Counsel. Mr. Behn stated that  
159 he and Mr. Capko will back her up and be available, as needed. He thanked the Board for the  
160 trust placed in the firm and in Mr. Malefatto.

161 Mr. Morera suggested that the firm create and award an "Al Malefatto Good Citizen  
162 Award" to a deserving attorney annually.

163 Mr. Capko voiced his appreciation for the kind comments about Mr. Malefatto and  
164 stated he and Mr. Behn will convey Mr. Morera’s suggestion to the Executive Committee.

165 **B. District Engineer: Craig A. Smith & Associates**

166 **I. Presentation: Monthly Engineer’s Report**

167 Mr. Rubio presented the Monthly Engineer’s Report.

168 **II. Permit Applications**

169 Mr. Rubio presented the following:

- 170 • **Blue Stream Communications, LLC [Holiday Springs Village]**

171

172 **On MOTION by Mr. Ortiz and seconded by Ms. Smith, with all in favor, the CAS**  
 173 **Project No. 15-1826, Right-of-Way permit application, submitted by Blue**  
 174 **Stream Communications, LLC – S14/15/T48S/R41E, for two directional bore**  
 175 **installations; 70 LF – 2” HDPE Conduit under the SWCD Canal “G” near 8605 W**  
 176 **Sample Road and 70 LF – 2” HDPE Conduit under the SWCD Canal “E” east of**  
 177 **NW 81<sup>st</sup> Avenue, subject to the Special Conditions set forth in the October 4,**  
 178 **2023 recommendation letter, was approved**

179

180

- 181 • **FPL [South of Atlantic Blvd.]**

182

183 **On MOTION by Mr. Ortiz and seconded by Ms. Smith, with all in favor, the CAS**  
 184 **Project No. 15-1826, Right-of-Way permit application, submitted by Florida**  
 185 **Power & Light (FPL) S34/T48S/R41E, directional bore installation, 170 LF of 2-6”**  
 186 **HDPE Conduits under the SWCD East Outfall Canal, subject to the Special**  
 187 **Conditions set forth in the October 4, 2023 recommendation letter, was**  
 188 **approved.**

189

190

- 191 **▪ Ladybird Academy Permit Extension Request**

192 **This was an addition to the agenda.**

193

194 **On MOTION by Ms. Smith and seconded by Mr. Ortiz, with all in favor, the CAS**  
 195 **Project No. 15-1826, Right-of-Way permit extension request 2 for Ladybird**  
 196 **Academy – Canal L, subject to the Special Conditions set forth in the October**  
 197 **11, 2023 recommendation letter, was approved.**

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**C. District Engineering Consultant: John McKune**

There was no report.

**D. District Field Supervisor: Cory Selchan**

Mr. Selchan reported the following:

➤ The District sustained 9” of rain in September and close to 3” to date, in October. He hopes there will not be any additional storms.

➤ Most of the District’s projects for the year are complete.

➤ The tree-trimming projects were completed and residents expressed satisfaction.

➤ The canals are beginning to look better.

**E. District Manager: Wrathell, Hunt & Associates, LLC**

Ms. Sanchez stated Mr. Malefatto was wonderful to work with and eased her transition to becoming the District’s Manager.

The District’s Holiday luncheon will be held on December 1, 2023 at 11:30 a.m.

- **NEXT MEETING DATE: November 8, 2023 at 6:30 PM**

- **QUORUM CHECK**

The next meeting will be held on November 8, 2023.

**TENTH ORDER OF BUSINESS**

**Public Comments**

No members of the public spoke.

**ELEVENTH ORDER OF BUSINESS**

**Adjournment**

**On MOTION by Ms. Smith and seconded by Mr. Ortiz, with all in favor, the meeting adjourned at 8:16 p.m.**

[SIGNATURES APPEAR ON THE FOLLOWING PAGE]

233  
234  
235  
236  
237

---

Secretary/Assistant Secretary

---

President/Vice President

**SUNSHINE  
WATER CONTROL DISTRICT**

**STAFF  
REPORTS  
BI**

November 1, 2023

Board of Supervisors  
Sunshine Water Control District  
2300 Glades Road, Suite 410W  
Boca Raton, Florida 33073

**RE: SUNSHINE WATER CONTROL DISTRICT – NOVEMBER MONTHLY ENGINEER’S REPORT (MER)  
October 11, 2023 – November 1, 2023  
CAS PROJECT NO. 15-1826**

Dear Board of Supervisors:

Craig A. Smith & Associates, Inc. (CAS) is pleased to provide you with the MER summarizing activity performed by our team on behalf of SWCD during the referenced period including future work. Anything of significance or modifications occurring after this writing will be brought up at the November 8, 2023 BOS meeting.

---

**Electrical Repairs at Pump Station Nos. 1 and 2**

Recommended is the approval of Change Order No. 4 in the amount of \$4,220 to replace the Main CB metering screen on face of switchboard. The current screen is no longer produced and requires new model. Supporting documentation is attached.

**Right-of-Way Permitting**

Recommended for Approval:

- Recommended is the ROW permit for the construction of Coral Springs Townhomes North & South from Habitat for Humanity of Broward County adjacent to SWCD Canal “D” located at 3710-3734 Riverside Dr Coral Springs, FL 33065. Canal “D” was in need of work and the burden of this work is procedurally placed on the permittee. However, due to the financial constraints with the project and in cooperation with the City, the SWCD volunteered its services to perform the canal work for the greater goal of serving the East Basin and the project as well. Without this work by the SWCD, this project may not have been realized. Furthermore, the City in its efforts agreed to and has removed the guardrail to give SWCD maintenance access to Canal “D” via the North parcel.

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Under Review:

- Amera Downtown Development Co., LLC – Sample Road and University Drive: Review comments were sent the applicant’s consultant on August 10, 2023.



561.314.4445



1425 E. Newport Drive  
Deerfield Beach, FL 33442





Board of Supervisors – November 8, 2023 Board Meeting

**RE: SUNSHINE WATER CONTROL DISTRICT - MONTHLY ENGINEER'S REPORT (MER)**

Page | 2

As always, we continue to look forward to working with the SWCD staff on current and future important projects. Should there be any questions, I can be reached at the letterhead numbers shown or by electronic mail at [orubio@craigasmith.com](mailto:orubio@craigasmith.com).

Sincerely,

**CRAIG A. SMITH & ASSOCIATES**

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

Orlando A. Rubio, PE  
VP - Stormwater Engineering

Enclosures: Permit Recommendation for Coral Springs Townhomes  
Change Order No. 4 for CCI

cc via e-mail: **SWCD** - Cory Selchan, District Superintendent  
**WHA** - Jamie Sanchez, Cindy Cerbone, Daphne Gillyard, Gianna Denofrio, Caryn Kupiec  
**CAS** - Steve C. Smith, PE

\\cas-file\projects\districts\sunshine\_water\_control\monthly engineers reports\2023mer\2023-11\swcd-monthlyrpt-2023-10-30.docx

SECTION 00931  
CHANGE ORDER

DATE OF ISSUANCE: November 8, 2023

No. 04

---

PROJECT: **SWCD STORMWATER PUMP STATION NOS. 1 & 2 ELECTRICAL REPAIRS  
CAS PROJECT No. 15-1826-PS1/PS2**

OWNER: **Sunshine Water Control District**

CONTRACTOR: **Current Connections, Inc**

DISTRICT ENGINEER CRAIG A. SMITH AND ASSOCIATES.

PROJECT ENGINEER: SMITH ENGINEERING CONSULTANTS

---

YOU ARE DIRECTED TO MAKE THE FOLLOWING CHANGES IN THE CONTRACT DOCUMENTS.  
DESCRIPTION:

Background: Recommended for approval is project change order no. 4 to cover the cost of the following items.

Provide the labor and material to remove and replace Main CB metering screen on face of switchboard. The PM800 metering screen is no longer produced. The recommended replacement (PM5563) will be installed.

Total Cost for Change Order No. 4: \$4,220.00

ATTACHMENTS: Detailed pricing from CCI is attached to this document including scope work.

CHANGE IN CONTRACT PRICE: Original Contract Price  \$1,251,000.00	CHANGE IN CONTRACT TIME: Original Contract Time  180 Days
Previous Change Orders  \$281,980.00	Net change from previous Change Orders  0 Days
Contract Price prior to this Change Order  \$ 1,532,980.00	Contract Time prior to this Change Order  270 Days
Net increase of this Change Order  \$4,220.00	Net Increase of this Change Order  30 days
Contract Price with all approved Change Orders  \$1,537,200.00	Contract Time with all approved Change Orders  300 Days

RECOMMENDED :



By: \_\_\_\_\_  
CAS/District Engineer – Orlando A. Rubio, PE

ACCEPTED :

By  \_\_\_\_\_  
Contractor: Don Sharkey, President

APPROVED :

By \_\_\_\_\_  
District Manager Via Board Approval: Jaime Sanchez  
END OF SECTION

# PROPOSED CHANGE ORDER

## Current Connections, Inc.

1620 Hill Avenue  
Mangonia Park, Florida 33407  
Telephone: (561) 863-0010  
Fax: (561) 863-5380

Client Address:

## Sunshine Water Control District

2300 Glades Road, Suite 410W  
Boca Raton, Florida 33431

CCN # 9

Date: 10/17/2023

Project Name: SWCD Pump Station #1 & 2 Electrical Re

Project Number: 2119

Page Number: 1

Site Address:

## Pump Station #1 & 2

PS #1 - 8085 Royal Palm Blvd.  
PS #2 - 10600 Riverside Dr  
Coral Springs, Florida 33071

## Work Description

Below is a labor and material breakdown for the work to remove and replace Main CB metering screen on face of switchboard. The PM800 metering screen is no longer produced. The recommended replacement will be installed PM5563. Cut Sheet Attached. We reserve the right to correct this quote for errors and omissions.

## Itemized Breakdown

Description	Qty	Net Price U	Total Mat.	Labor U	Total Hrs.
Site Investigation	1	0.00 E	0.00	2.00 E	2.00
Remove Meter Controller	1	0.00 E	0.00	1.00 E	1.00
Remove Meter Screen	1	0.00 E	0.00	0.50 E	0.50
Install new Meter Screen	1	0.00 E	0.00	1.00 E	1.00
Install new Meter Controller	1	0.00 E	0.00	2.00 E	2.00
Travel Time / Man	2	0.00 E	0.00	2.00 E	4.00
<b>Totals</b>	<b>7</b>		<b>0.00</b>		<b>10.50</b>

## Summary

### MATERIAL COSTS

DISTRIBUTION 2,400.00

### Material Subtotal

Material Tax (@ 7.000 %) 168.00

### Total Material

2,568.00

### LABOR COSTS

JOURNEYMAN (5.25 Hrs @ \$64.00) 336.00

FOREMAN (5.25 Hrs @ \$80.00) 420.00

PROJECT MANAGER @ 15% (1.58 Hrs @ \$93.00) 146.94

### Total Labor

902.94

### GENERAL EXPENSE COSTS

TRAVEL EXPENSES (per Mile) (100.00 @ 0.6500) 65.00

FREIGHT (1.00 @ 50.0000) 50.00

### Total General Expenses

115.00

### OVERHEAD & MARKUP

Overhead (@ 10.000 %) 358.59

Markup (@ 5.000 %) 197.23

### Total OH & P

555.82

### Subtotal

4,141.76

P & P BOND FEE (@ 1.900 %) 78.69

Final Adjustment -0.45

### Final Amount

**\$4,220.00**

ORIGINAL

# Product data sheet

Specifications



power meter PowerLogic PM5563,  
2 ethernet, up to 63th Harmonic,  
1,1MB 4DI/2DO 52 alarms, with  
remote display

METSEPM5563RD

**Product availability : Stock - Normally stocked in distribution facility**

**Price\* : 4,316.40 USD**

## Main

Range	PowerLogic
Product name	PowerLogic PM5000
Device short name	PM5563
Product or Component Type	Power meter

## Complementary

Power quality analysis	up to the 63rd harmonic
Metering type	Measured neutral current Calculated ground current
Device Application	Gateway Power monitoring WAGES metering Multi-tariff
Type of measurement	Current Voltage Frequency Power factor Energy Active and reactive power
Supply voltage	100...300 V DC 90...528 V AC 45...65 Hz
Network Frequency	50 Hz 60 Hz
Line Rated Current	1 A 5 A
Type of network	1P + N 3P 3P + N
Maximum power consumption in VA	16 VA 480 V
Ride-through time	35 ms 120 V AC typical 129 ms 230 V AC typical 50 ms 125 V DC typical
Display Type	Remote LCD display
Display Resolution	128 x 128 pixels
Sampling rate	128 samples/cycle
Measurement current	50...10000 mA

\* Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

<b>Analogue input type</b>	Voltage (impedance 5 MOhm) Current (impedance <= 0.3 mOhm)
<b>Measurement voltage</b>	20...400 V AC 45...65 Hz between phase and neutral 20...828 V AC 45...65 Hz between phases
<b>Frequency measurement range</b>	45...65 Hz
<b>Number of inputs</b>	4 digital
<b>Measurement accuracy</b>	Apparent power +/- 0.5 % Frequency +/- 0.05 % Active energy +/- 0.2 % Reactive energy +/- 1 % Active power +/- 0.2 % Voltage +/- 0.1 % Power factor +/- 0.005 Current +/- 0.15 % Reactive power +/- 1 %
<b>Accuracy class</b>	Class 0.2S active energy IEC 62053-22
<b>Number of Outputs</b>	2 digital
<b>Information displayed</b>	Tariff 8)
<b>Communication port protocol</b>	Modbus RTU and ASCII 9.6, 19.2 and 38.4 kbauds even/odd or none - 2 wires 2500 V JBUS Modbus TCP/IP 10/100 Mbit/s 2500 V Ethernet Modbus TCP/IP daisy chain BACnet IP DNP3 over ethernet
<b>Communication port support</b>	RS485 ETHERNET
<b>Communication gateway</b>	Ethernet/serial
<b>Data recording</b>	Time stamping Data logs Maintenance logs Event logs Alarm logs Min/max of instantaneous values
<b>Memory capacity</b>	1.1 MB
<b>Web services</b>	Diagnostic via predefined web pages Real time viewing of data Web server Alarm notification by e-mail
<b>Ethernet service</b>	SNTP client SNMP-Traps
<b>Connections - terminals</b>	Voltage circuit screw terminal block4 Control circuit screw terminal block2 Current transformer screw terminal block6 RS485 link screw terminal block4 Digital input screw terminal block8 Digital output screw terminal block4 Ethernet network RJ45 connector2
<b>Mounting Mode</b>	Clip-on
<b>Mounting support</b>	DIN rail
<b>Standards</b>	EN 50470-3 EN 50470-1 IEC 62053-22 IEC 60529 UL 61010-1 IEC 62053-24 IEC 61557-12 ANSI C12.20
<b>Product certifications</b>	CE IEC 61010-1 CULus UL 61010-1 BTL
<b>Width</b>	3.78 in (96 mm)
<b>Depth</b>	2.83 in (72 mm)
<b>Height</b>	3.78 in (96 mm)
<b>Net Weight</b>	15.87 oz (450 g)

## Environment

<b>Electromagnetic compatibility</b>	Limits for harmonic current emissionsclass A IEC 61000-3-2 Conducted RF disturbanceslevel 3 IEC 61000-4-6 Magnetic field at power frequencylevel 4 IEC 61000-4-8 Conducted and radiated emissionsclass B EN 55022 Limitation of voltage changes, voltage fluctuations and flicker in low-voltage IEC 61000-3-3 Electrostatic discharge 8 kVlevel 4 IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test IEC 61000-4-3 Electrical fast transient/burst immunity testlevel 4 IEC 61000-4-4 Surge immunity testlevel 4 IEC 61000-4-5 Voltage dips and interruptions immunity test IEC 61000-4-11
<b>IP degree of protection</b>	Display IP54 IEC 60529 Rear IP30 IEC 60529
<b>Relative humidity</b>	5...95 % 122 °F (50 °C) non-condensing
<b>Pollution degree</b>	2
<b>Ambient air temperature for operation</b>	-13...158 °F (-25...70 °C)
<b>Ambient Air Temperature for Storage</b>	-40...185 °F (-40...85 °C)
<b>Operating altitude</b>	<= 9842.52 ft (3000 m)

## Ordering and shipping details

<b>Category</b>	09777-POWERLOGIC PM5000 HARDWARE
<b>Discount Schedule</b>	PL1
<b>GTIN</b>	3606480761416
<b>Returnability</b>	Yes
<b>Country of origin</b>	IN

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	5.98 in (15.2 cm)
<b>Package 1 Width</b>	4.84 in (12.3 cm)
<b>Package 1 Length</b>	6.77 in (17.2 cm)
<b>Package 1 Weight</b>	35.13 oz (996.0 g)

## Offer Sustainability

<b>Sustainable offer status</b>	Green Premium product
<b>California proposition 65</b>	WARNING: Cancer and Reproductive Harm - <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
<b>REACH Regulation</b>	<a href="#">REACH Declaration</a>
<b>REACH free of SVHC</b>	Yes
<b>EU RoHS Directive</b>	Compliant <a href="#">EU RoHS Declaration</a>
<b>Toxic heavy metal free</b>	Yes
<b>Mercury free</b>	Yes
<b>China RoHS Regulation</b>	<a href="#">China RoHS declaration</a>
<b>RoHS exemption information</b>	<a href="#">Yes</a>
<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<b>Circularity Profile</b>	<a href="#">End of Life Information</a>

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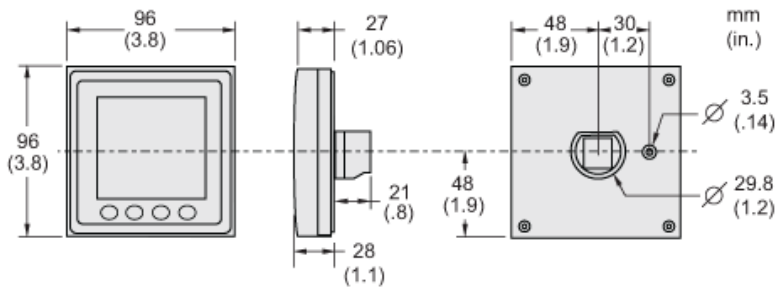
**WEEE**

The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.



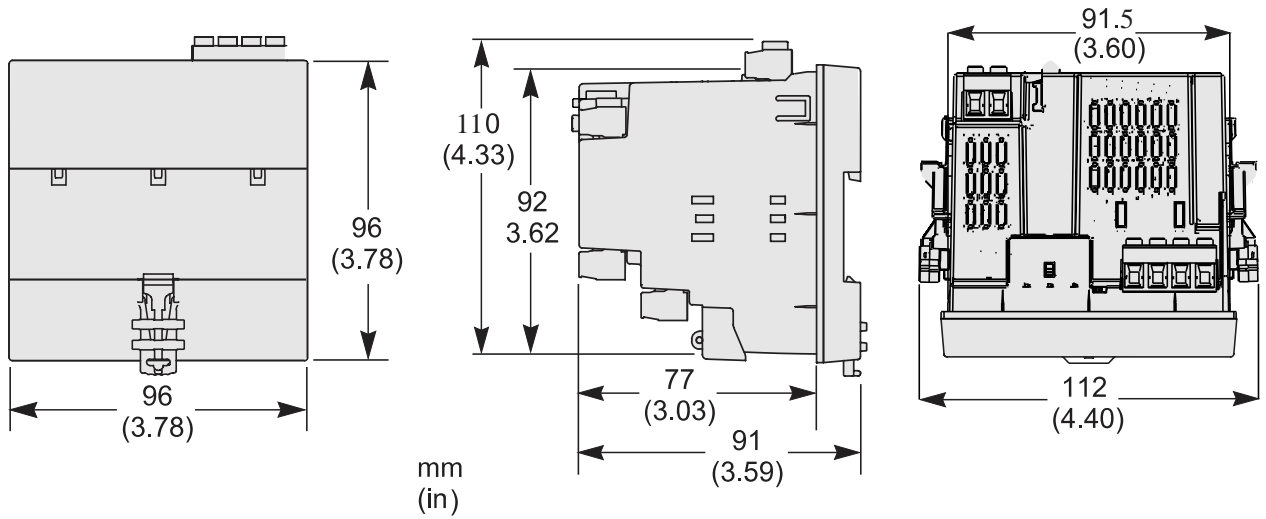
Approximate Dimensions

PM5000 Series Remote Display



**Dimensions**

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PM5563

ALL DIMENSIONS ARE APPROXIMATE.  
REFER TO TECHNICAL DRAWINGS AND DOCUMENTATION FOR COMPLETE INFORMATION.

**Recommended replacement(s)**

## Ron Foertmeyer

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**From:** Jared Bloom <jared.bloom@se.com>  
**Sent:** Tuesday, October 17, 2023 11:58 AM  
**To:** Ron Foertmeyer; Tom Crossey  
**Subject:** RE: SWCD Pump Stations #1 & 2 Electrical Repairs  
**Attachments:** PowerLogic PM5000 series\_METSEPM5563RD.pdf

Ron – the PM800 series is now obsolete.

The direct replacement is the PM5563, p/n METSEPM5563RD.  
See attached data sheet.

Plenty in-stock.

Contractor net price : \$2,400

Regards,  
Jared

Jared Bloom  
Senior Sales Executive  
Square D by Schneider Electric

M 561-662-1508  
E [jared.bloom@se.com](mailto:jared.bloom@se.com)

450 South Orange Ave, Room 384  
Orlando, FL 32801

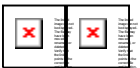
Internal

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**From:** Ron Foertmeyer <ronf@currentconnections.net>  
**Sent:** Tuesday, October 17, 2023 11:33 AM  
**To:** Tom Crossey <TCrossey@pedwpb.com>; Jared Bloom <jared.bloom@se.com>  
**Subject:** Re: SWCD Pump Stations #1 & 2 Electrical Repairs

[External email: Use caution with links and attachments]

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The meter that needs to be replaced at PS1, please forward pricing. It's a rj45 connector Current Connection can install.

Thanks

Ron Foertmeyer  
Current Connections, Inc.  
(561) 512-0210

On Oct 5, 2023, at 10:29 AM, Ron Foertmeyer <[ronf@currentconnections.net](mailto:ronf@currentconnections.net)> wrote:

I have that but its PS2 MCC only.

I will get the information next week.

Thanks for your help.

Ron

---

**From:** Tom Crossey <[TCrossey@PEDWPB.com](mailto:TCrossey@PEDWPB.com)>  
**Sent:** Thursday, October 5, 2023 10:00 AM  
**To:** Ron Foertmeyer <[ronf@currentconnections.net](mailto:ronf@currentconnections.net)>  
**Subject:** FW: SWCD Pump Stations #1 & 2 Electrical Repairs

Ron look at this I don't see a meter on this??

Tom

## **Tom Crossey**

**Outside Sales**

**Peninsular Electric Distributors Inc.**

Direct – (561)662-8482

Office - (561)832-1626

Fax - (561)832-2108

1301 Okeechobee Road

West Palm Beach, FL 33401

[www.pedwpb.com](http://www.pedwpb.com)

<image001.png>

**SUNSHINE  
WATER CONTROL DISTRICT**

**STAFF  
REPORTS  
BII**



November 1, 2023

Board of Supervisors  
Sunshine Water Control District  
2300 Glades Road, Suite 410W  
Boca Raton, Florida 33073

**RE: SWCD RIGHT-OF-WAY (ROW) PERMIT APPLICATION**  
**Proposed: Coral Springs Townhomes – North & South; Adjacent to SWCD Canal “D”**  
**Permittee: Habitat for Humanity of Broward County - S14/T48S/R41E**  
**CAS PROJECT NO. 15-1826**

Dear Board of Supervisors:

We have reviewed a ROW permit application submitted by the Keith Team for the development of a low income residential project adjacent to SWCD Canal “D” located at 3710-3734 Riverside Dr Coral Springs, FL 33065. Canal “D” was in need of work and the burden of this work is procedurally placed on the permittee. However, due to the financial constraints with the project and in cooperation with the City, the SWCD volunteered its services to perform the canal work for the greater goal of serving the East Basin and the project as well. Without this work by the SWCD, this project may not have been realized. Furthermore, the City in its efforts agreed to and has removed the guardrail to give SWCD maintenance access to Canal “D” via the North parcel. We recommend that the SWCD Board of Supervisors issue a Right-of-Way Permit to the applicant, subject to the following Special Conditions to be made part of the Permit:

1. All work must be in compliance with the latest SWCD Permit Criteria Manual.
2. Permittee will ensure that all necessary Sediment & Erosion Control devices will be utilized at the SWCD right-of-way during construction.
3. Trash bond (\$2,500) shall be submitted prior to permit issuance and the Permittee shall repair and replace any SWCD facilities damaged during construction at no cost to the District.
4. A copy of Record As-builts and Engineer Certification shall be provided to SWCD upon completion of all work.
5. All applicable permits and approvals for Work shall be obtained.
6. All disturbed areas are to be restored.
7. SWCD shall be notified at least 48 hours prior to construction.

Sincerely,

**CRAIG A. SMITH & ASSOCIATES**

Orlando A. Rubio, PE  
VP - Stormwater Engineering

Enclosures: Plans

cc via e-mail: SWCD – Cory Selchan, WHA - Jamie Sanchez, Cindy Cerbone, Gianna Denofrio, CAS – Stephen C. Smith, PE

\\cas-file\Projects\Districts\Sunshine\_Water\_Control\19-2064-1CP-SWCD Non recovery\01-RIGHT-OF-WAY\2023\15-1826-HabitaFH\04-Correspondence\02-Letters\HabitatFH.docx



561.314.4445



1425 E Newport Center Drive  
Deerfield Beach, FL 33486



# HABITAT FOR HUMANITY NORTH

RIVERSIDE DRIVE  
CORAL SPRINGS, FLORIDA 33065



RELATIONSHIP BETWEEN  
NGVD 1929 AND NAVD 1988

DATUM	DIFFERENCE	ELEV.
NGVD 1929	+1.55 FEET	1.55'
NAVD 1988		0.00'

ALL ELEVATIONS SHOWN ON THESE PLANS ARE  
BASED ON NAVD 1988 DATUM

**LAND DESCRIPTION**

LOTS 1, 2 AND 3 BLOCK "Y" CORAL SPRINGS SUBDIVISION NO. 1,  
ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 59,  
PAGE 30, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

SAD LANDS LYING IN THE CITY OF CORAL SPRINGS, BROWARD  
COUNTY, FL AND CONTAINING 22,993 SQUARE FEET, MORE OR LESS.

**PROJECT TEAM**

PROPERTY OWNER  
HABITAT FOR HUMANITY OF BROWARD, INC.  
888 NW 62ND ST.  
FORT LAUDERDALE, FL 33309  
(954) 396-3030

APPLICANT, CIVIL ENGINEER & LANDSCAPING  
KEITH & ASSOCIATES, INC.  
301 E ATLANTIC BLVD.  
POMPANO BEACH, FL 33069  
(954) 788-3620

ARCHITECT  
FBIFF ARCHITECTS + PLANNERS  
888 S ANDREWS AVE., SUITE 300  
FORT LAUDERDALE, FL 33316  
(954) 764-6575

THESE PLANS MAY HAVE BEEN  
REDUCED IN SIZE BY REPRODUCTION.  
THIS MUST BE CONSIDERED WHEN  
OBTAINING SCALED DATA.



LOCATION MAP  
SECTION 14, TOWNSHIP 48 S, RANGE 41 E  
FOLIO # 484114180010

INDEX OF SHEETS	
SHEET No.	SHEET TITLE
GI-000	COVER SHEET
GI-001	GENERAL NOTES
GI-002	CONSTRUCTION SPECIFICATIONS
GI-003	SPECIFIC CONSTRUCTION NOTES & LEGEND
CD-102	DEMOLITION PLAN
CD-102	PRELIMINARY EROSION CONTROL PLAN
CD-501	EROSION CONTROL DETAILS
CP-102	PRELIMINARY PAVING, GRADING, AND DRAINAGE PLAN
CP-302	PAVING, GRADING, AND DRAINAGE SECTIONS
CP-501 - CP-502	PAVING, GRADING, AND DRAINAGE DETAILS

PREPARED FOR:  
HABITAT FOR HUMANITY  
OF BROWARD



THOMAS F. DONAHUE, P.E.  
FLORIDA REG. NO. 60529  
(FOR THE FIRM)

PROJECT No. 10431.03 OCTOBER 2023

GENERAL NOTES

THIS CONSTRUCTION PROJECT MAY OR MAY NOT INCLUDE ALL ITEMS COVERED BY THESE NOTES AND SPECIFICATIONS...

1. SPECIFIC SITE NOTES

- 1.1. COUNTY AND "CITY" IN THESE NOTES REFERS TO COUNTY AND CITY IN WHICH PROJECT RESIDES.
1.2. STATE IN THESE NOTES REFERS TO THE STATE OF FLORIDA.
1.3. EXISTING TOPOGRAPHIC INFORMATION IN THE PLANS IS BASED ON SURVEY DATA AND BEST AVAILABLE INFORMATION...

2. APPLICABLE CODES

- 2.1. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY, COUNTY, AND ALL OTHER JURISDICTIONAL, STATE AND NATIONAL CODES WHERE APPLICABLE.
2.2. IN THE EVENT OF A CONFLICT BETWEEN THE GENERAL NOTES AND CONSTRUCTION SPECIFICATIONS IN THESE PLANS...

C

3. CONSTRUCTION NOTES:

- 3.1. CONTRACTOR SHALL TIE TO EXISTING GRADE BY EVENLY SLOPING FROM CLOSEST PROPOSED GRADE PROVIDED TO EXISTING GRADE AT LIMITS OF CONSTRUCTION...
3.2. UNLESS OTHERWISE INDICATED ON THE PLANS, ALL EXISTING MANHOLES, CATCH BASINS, METERS AND OTHER STRUCTURES...
3.3. THE CURB SHALL BE SLOPED TO ACCOMMODATE THE NEW PAVEMENT, CATCH BASIN AND GRATE...

B

A

3.12. THE TOPOGRAPHIC SURVEY INCLUDED WITH THIS SET OF PLANS REFLECTS PRE-DEMOLITION CONDITIONS AND DOES NOT REFLECT THE SITE CONDITIONS AFTER DEMOLITION...

3.13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR READING AND FAMILIARIZING THEMSELVES WITH ANY AND ALL AVAILABLE GEOTECHNICAL REPORTS PREPARED BY OTHERS AND/OR ANY RECOMMENDATIONS WRITTEN OR IMPLIED BY THE GEOTECHNICAL ENGINEER...

3.14. THE CONTRACTOR SHALL ENSURE THAT THE AVAILABLE GEOTECHNICAL INFORMATION IS SUFFICIENT FOR HIS COMPLETE UNDERSTANDING OF THE SOIL CONDITIONS FOR THE SITE...

3.15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RESTORATION OF EXISTING PAVEMENT, PIPES, CONDUITS, SPRINKLER HEADS, CABLES, ETC., AND LANDSCAPED AREAS...

3.16. THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH FOR PERFORMING THE CONTRACTED WORK...

3.17. ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE CITY AND/OR ENGINEER, WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION...

3.18. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE CITY ENGINEERING INSPECTOR AND ENGINEER 48 HOURS IN ADVANCE OF THE EVENT TO NOTIFY THE CITY OF CONSTRUCTION START UP, OR TO SCHEDULE ALL REQUIRED TESTS AND INSPECTIONS INCLUDING FINAL WALK-THROUGHS.

3.19. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE CITY ENGINEERING INSPECTOR AND ENGINEER 48 HOURS IN ADVANCE OF THE EVENT TO NOTIFY THE CITY OF CONSTRUCTION START UP...

3.20. IN AREAS WHERE THE BASE IS EXPOSED BY THE MILLING OPERATION, THE CONTRACTOR SHALL RESTORE THE BASE TO ITS ORIGINAL THICKNESS AND STRUCTURAL CAPACITY BEFORE PAVING OVER SUCH AREAS...

- 4.6. PRIOR TO CONSTRUCTION OR INSTALLATION, 5 SETS OF SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AS REQUIRED FOR THE FOLLOWING ITEMS LISTED BELOW, BUT NOT LIMITED TO:
• DRAINAGE: CATCH BASINS, MANHOLES, HEADWALLS, GRATES/TOPS, YARD DRAINS.
• WATER: FIRE HYDRANTS, VALVES, BACKFLOW PREVENTER, DDCV, METER BOX.

- 4.6.1. CATALOGUE LITERATURE SHALL BE SUBMITTED FOR DRAINAGE, WATER AND SEWER PIPES, FITTINGS, AND APPURTENANCES.
4.6.2. PRIOR TO SUBMITTING SHOP DRAWINGS TO THE ENGINEER, THE CONTRACTOR SHALL REVIEW AND APPROVE THE DRAWINGS, AND SHALL NOTE IN RED ANY DEVIATIONS FROM THE ENGINEER'S PLANS OR SPECIFICATIONS.
4.6.3. INDIVIDUAL SHOP DRAWINGS FOR ALL PRECAST STRUCTURES ARE REQUIRED. CATALOGUE LITERATURE WILL NOT BE ACCEPTED FOR PRECAST STRUCTURES.

- 4.7. CONTRACTOR TO SUBMIT MAINTENANCE OF TRAFFIC PLAN(S) IN ACCORDANCE WITH FDOT AND COUNTY REQUIREMENTS, AND SUBMIT FOR APPROVAL PRIOR TO BEGINNING CONSTRUCTION.

- 5. INSPECTIONS / TESTING:
5.1. THE CONTRACTOR SHALL NOTIFY IN WRITING THE OWNER, CITY, COUNTY, ENGINEER OF RECORD, AND ANY OTHER GOVERNMENTAL AGENCIES HAVING JURISDICTION AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION...
• CLEARING AND EARTHWORK
• STORM DRAINAGE SYSTEMS
• SANITARY SEWER SYSTEMS
• WATER DISTRIBUTION SYSTEMS
• SUBGRADE
• LIMEROCK BASE
• ASPHALT OR CONCRETE PAVEMENT
• SIDEWALKS, CONCRETE FLATWORK/CURBING
• LANDSCAPING
• PAVEMENT MARKING AND SIGNAGE
• SIGNALIZATION
• SITE LIGHTING
• ELECTRICAL AND COMMUNICATION LINES
• UTILITY CONDUITS
• IRRIGATION
• FINAL

5.2. THE OWNER, ENGINEER, AND JURISDICTIONAL PERMITTING AGENCIES MAY MAKE INSPECTIONS OF THE WORK AT ANY TIME. THE CONTRACTOR SHALL COOPERATE FULLY WITH ALL INSPECTIONS.

5.3. TESTING - ALL TESTING REQUIRED BY THE PLANS AND SPECIFICATIONS SHALL BE PERFORMED BY A LICENSED / FDOT QUALIFIED TESTING COMPANY. REQUIRED TEST FOR ASPHALT AND LIMEROCK SHALL BE TAKEN AT THE DIRECTION OF THE ENGINEER OR THE JURISDICTIONAL GOVERNMENTAL AGENCY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

- 6. TEMPORARY FACILITIES
6.1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES, COMMUNICATIONS, AND ELECTRICITY, FOR HIS OPERATIONS AND WORKS, COST INCLUDED UNDER MOBILIZATION.
6.2. CONTRACTOR SHALL CONSTRUCT TEMPORARY FENCING TO SECURE CONSTRUCTION AREAS AT ALL TIMES. COST INCLUDED IN MOBILIZATION.
6.3. CONTRACTOR TO OBTAIN A SECURE STAGING AREA AND OBTAIN ALL NECESSARY APPROVALS FROM THE OWNER.
6.4. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN TEMPORARY LIGHTING AS REQUIRED TO LIGHT THE CONSTRUCTION PROJECT LIMITS AT ALL TIMES, TO AT LEAST THE SAME LIGHTING INTENSITY LEVELS AS THE EXISTING CONDITIONS.

6.5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES AT ALL TIMES.
7. PROJECT PROGRESS AND CLOSEOUT
7.1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER, AND UPON FINAL CLEAN-UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH...

7.2. THE CONTRACTOR SHALL RESTORE OR REPLACE ANY PUBLIC OR PRIVATE PROPERTY (SUCH AS HIGHWAY, DRIVEWAY, WALKWAY, AND LANDSCAPING), DAMAGED BY HIS WORK, EQUIPMENT, OR EMPLOYEES...
7.3. MATERIAL OR DEBRIS SHALL BE HAULED IN ACCORDANCE WITH NPDES PERMIT AND JURISDICTIONAL LAWS.
7.4. ALL LAND SURVEY PROPERTY MONUMENTS OR PERMANENT REFERENCE MARKERS, REMOVED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED BY A STATE OF FLORIDA REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.

ASPHALT PAVEMENT) THE CONTRACTOR SHALL FURNISH THE ENGINEER OF RECORD "AS-BUILT" PLANS FOR THESE IMPROVEMENTS, SHOWING THE LOCATIONS AND PERTINENT GRADES OF ALL DRAINAGE INSTALLATIONS AND THE FINISHED ROCK GRADES OF THE ROAD CROWN AND EDGES OF PAVEMENT AT 50 FOOT INTERVALS...

- 8.3. UPON COMPLETION OF CONSTRUCTION, AND PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD ONE COMPLETE SET OF ALL "AS-BUILT" CONTRACT DRAWINGS. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES, DIMENSIONS, LOCATIONS, AND ELEVATIONS OF ALL IMPROVEMENTS.
8.4. "AS-BUILT" DRAWINGS OF WATER LINES AND FORCE MAINS SHALL INCLUDE THE FOLLOWING INFORMATION:
8.4.1. TOP OF PIPE ELEVATIONS EVERY 100 LF.
8.4.2. LOCATIONS AND ELEVATIONS OF ALL FITTINGS INCLUDING BENDS, TEES, GATE VALVES, DOUBLE DETECTOR CHECK VALVES, FIRE HYDRANTS, AND APPURTENANCES.

- 8.4.3. ALL CONNECTIONS TO EXISTING LINES.
8.4.4. ENDS OF ALL WATER SERVICES AT THE BUILDINGS WHERE THE WATER SERVICE TERMINATES.
8.5. "AS-BUILT" DRAWINGS OF GRAVITY SANITARY SEWER LINES SHALL INCLUDE THE FOLLOWING INFORMATION:
8.5.1. RIM ELEVATIONS, INVERT ELEVATIONS, LENGTH OF PIPING BETWEEN STRUCTURES, AND SLOPES.
8.5.2. THE STUB ENDS AND CLEANOUTS OF ALL SEWER LATERALS SHALL BE LOCATED HORIZONTALLY AND VERTICALLY.

- 8.6. "AS-BUILT" DRAWINGS OF ALL DRAINAGE LINES SHALL INCLUDE THE FOLLOWING INFORMATION:
8.6.1. RIM ELEVATION, INVERT ELEVATION, LENGTH OF PIPING BETWEEN STRUCTURES, AND CONTROL STRUCTURE ELEVATIONS IF APPLICABLE.
8.6.2. THE SIZE OF THE LINES.
8.6.3. DRAINAGE WELL STRUCTURE SHALL INCLUDE, BUT NOT BE LIMITED TO, TOP OF CASING ELEVATION, TOP AND BOTTOM ELEVATIONS OF THE STRUCTURE AND BAFFLE WALLS, RIM ELEVATIONS AND PIPE INVERTS.

- 8.7. "AS-BUILT" DRAWINGS OF CONSTRUCTION AREAS SHALL INCLUDE THE FOLLOWING:
8.7.1. ROCK ELEVATIONS AT ALL HIGH, AND LOW POINTS, AND AT ENOUGH INTERMEDIATE POINTS TO CONFIRM SLOPE CONSISTENCY.
8.7.2. ROCK ELEVATIONS AND CONCRETE BASE ELEVATIONS SHALL BE TAKEN AT ALL LOCATIONS WHERE THERE IS A FINISH GRADE ELEVATION SHOWN ON THE DESIGN PLANS.
8.7.3. ALL CATCH BASIN AND MANHOLE RIM ELEVATIONS.
8.7.4. FINISH GRADE ELEVATIONS IN ISLAND AREAS.
8.7.5. "AS-BUILT" ELEVATIONS SHALL BE TAKEN ON ALL PAVED AND UNPAVED SWALES, AT ENOUGH INTERMEDIATE POINTS TO CONFIRM SLOPE CONSISTENCY AND CONFORMANCE TO THE PLAN DETAILS.

8.7.6. LAKE AND CANAL BANK "AS-BUILT" DRAWINGS SHALL INCLUDE A KEY SHEET OF THE LAKE FOR THE LOCATION OF CROSS SECTIONS. LAKE AND CANAL BANK CROSS SECTIONS SHALL BE PLOTTED AT A MINIMUM OF EVERY 100 LF, UNLESS OTHERWISE SPECIFIED. "AS-BUILT" DRAWINGS SHALL CONSIST OF THE LOCATION AND ELEVATION OF THE TOP OF BANK, EDGE OF WATER, AND THE DEEP CUT LINE, WITH THE DISTANCE BETWEEN EACH SHOWN ON THE DRAWING.

8.7.7. RETENTION AREA "AS-BUILT" ELEVATIONS SHALL BE TAKEN AT THE BOTTOM OF THE RETENTION AREA AND AT THE TOP OF BANK. IF THERE ARE CONTOURS INDICATED ON THE DESIGN PLANS, THEN THEY SHALL BE INCLUDED IN "AS-BUILT" DRAWINGS AS WELL.

8.8. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL PREPARE "AS-BUILT" DRAWINGS ON FULL SIZE, 24" X 36" SHEETS. ALL "AS-BUILT" INFORMATION SHALL BE PUT ON THE LATEST ENGINEERING DRAWINGS. EIGHT (8) SETS OF BLUE OR BLACK LINE DRAWINGS SHALL BE SUBMITTED. THESE DRAWINGS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER OR LAND SURVEYOR.

8.9. AN ELECTRONIC COPY OF THESE "AS-BUILT" DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD IN AUTOCAD, VERSION 2008 OR LATER.
9. UTILITY NOTES
9.1. CONTRACTOR IS RESPONSIBLE FOR UTILITY VERIFICATION PRIOR TO FABRICATION.
9.2. THE CONTRACTOR IS ADVISED THAT PROPERTIES ADJACENT TO THE PROJECT HAVE ELECTRIC, TELEPHONE, GAS, WATER AND/OR SEWER SERVICE LATERALS WHICH MAY NOT BE SHOWN IN PLANS. THE CONTRACTOR MUST REQUEST THE LOCATION OF THESE LATERAL SERVICES FROM THE UTILITY COMPANIES.

9.3. THE CONTRACTOR SHALL USE HAND DIGGING WHEN EXCAVATING NEAR EXISTING UTILITIES. EXTREME CAUTION SHALL BE EXERCISED BY THE CONTRACTOR WHILE EXCAVATING, INSTALLING, BACKFILLING OR COMPACTING AROUND THE UTILITIES.
9.4. THE CONTRACTOR SHALL NOTIFY AND OBTAIN AN UNDERGROUND CLEARANCE FROM ALL UTILITY COMPANIES AND GOVERNMENTAL AGENCIES AT LEAST 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION...
9.5. FOR STREET EXCAVATION OR CLOSING OR FOR ALTERATION OF ACCESS TO PUBLIC OR PRIVATE PROPERTY, THE CONTRACTOR SHALL NOTIFY:
• ROADWAY JURISDICTIONAL ENGINEERING / PUBLIC WORKS AUTHORITY.

- COUNTY TRANSIT AUTHORITY
• SCHOOL BOARD TRANSPORTATION AUTHORITY
• JURISDICTIONAL FIRE DEPARTMENT DISPATCH
• JURISDICTIONAL POLICE DEPARTMENT(S)
9.6. THE CONTRACTOR SHALL USE EXTREME CAUTION WORKING UNDER, OVER, AND AROUND EXISTING ELECTRIC LINES. THE CONTRACTOR SHALL CONTACT THE ELECTRIC PROVIDER COMPANY TO VERIFY LOCATIONS, VOLTAGE, AND REQUIRED CLEARANCES, ONSITE, IN RIGHT-OF-WAYS, AND IN EASEMENTS, PRIOR TO ANY CONSTRUCTION IN THE VICINITY OF EXISTING LINES.

9.7. LOCATION AND SIZE OF ALL EXISTING UTILITIES AND TOPOGRAPHY (FACILITIES) AS SHOWN ON CONSTRUCTION DRAWINGS ARE DRAWN FROM AVAILABLE RECORDS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE FACILITIES SHOWN OR FOR ANY FACILITY NOT SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION (VERTICAL & HORIZONTAL) OF ANY EXISTING UTILITIES AND TOPOGRAPHY PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE ELEVATIONS AND LOCATIONS OF ALL EXISTING FACILITIES, IN COORDINATION WITH ALL UTILITY COMPANIES, PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS...

9.8. THE CONTRACTOR SHALL COORDINATE THE WORK WITH OTHER CONTRACTORS IN THE AREA AND ANY OTHER UNDERGROUND UTILITY COMPANIES REQUIRED. THE CONTRACTOR SHALL COORDINATE RELOCATION OF ALL EXISTING UTILITIES WITH APPLICABLE UTILITY COMPANIES.
10. SIGNING AND PAVEMENT MARKINGS
10.1. ALL SIGNING AND PAVEMENT MARKINGS INSTALLED AS PART OF THESE PLANS SHALL CONFORM TO THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), COUNTY TRAFFIC DESIGN STANDARDS AND FDOT DESIGN STANDARDS AS A MINIMUM CRITERIA.

10.2. MATCH EXISTING PAVEMENT MARKINGS AT THE LIMITS OF CONSTRUCTION.
10.3. REMOVAL OF THE EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY WATER BLASTING OR OTHER APPROVED METHODS DETERMINED BY THE ENGINEER.
10.4. INCORRECTLY PLACED PAINT OR THERMOPLASTIC PAVEMENT MARKINGS OVER FRICTION COURSE WILL BE REMOVED BY MILLING AND REPLACING THE FRICTION COURSE A MINIMUM WIDTH OF 18 IN AT THE CONTRACTOR'S EXPENSE. THE ENGINEER MAY APPROVE AN ALTERNATIVE METHOD IF IT CAN BE DEMONSTRATED TO COMPLETELY REMOVE THE MARKINGS WITHOUT DAMAGING THE ASPHALT.

10.5. PLACE ALL RETRO-REFLECTIVE PAVEMENT MARKERS IN ACCORDANCE WITH FDOT STANDARD INDEX 706-001 AND / OR AS SHOWN IN THE PLANS.
10.6. CAUTION SHOULD BE EXERCISED WHILE RELOCATING EXISTING SIGNS TO PREVENT UNNECESSARY DAMAGE TO SIGNS. IF THE SIGN IS DAMAGED BEYOND USE, AS DETERMINED BY THE ENGINEER, SIGNS SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.

10.7. ALL EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS SHALL BE REMOVED, STOCKPILED, AND RELOCATED BY THE CONTRACTOR. SIGN REMOVAL SHALL BE DIRECTED BY THE ENGINEER.
10.8. RELOCATED SIGN SUPPORT SYSTEM MUST MEET THE CURRENT DESIGN STANDARD.
10.9. THE CONTRACTOR SHALL PROVIDE AN INVENTORY OF EXISTING SIGNS TO REMAIN OR TO BE RELOCATED PRIOR TO STARTING THE JOB AND FORWARD THIS LIST TO THE ENGINEER...

10.10. ALL ROADWAY PAVEMENT MARKINGS SHALL BE THERMOPLASTIC IN ACCORDANCE WITH FDOT SPECIFICATIONS SECTION 711.
10.11. HAND DIG THE FIRST FOUR FEET OF SIGN FOUNDATION.
10.12. ALL SIGNS SHALL MEET ALL OF THE FOLLOWING:
• MEET THE CRITERIA OUTLINED IN SECTION 2A.08 OF THE 2009 MUTCD
• MEET THE SPECIFICATIONS OUTLINED IN SECTION 700 AND 994 OF THE LATEST FDOT STANDARD SPECIFICATIONS.

• CONSIST OF MATERIALS CERTIFIED TO MEET THE RETROREFLECTIVE SHEETING REQUIREMENTS OUTLINED IN THE CURRENT VERSION OF ASTM D4956 FOR TYPE-XI RETROREFLECTIVE SHEETING MATERIALS MADE WITH PRISMS, EXCEPT FOR SCHOOL ZONE AND PEDESTRIAN SIGNS WHICH SHALL BE COMPRISED OF RETROREFLECTIVE FLUORESCENT YELLOW-GREEN SHEETING CERTIFIED TO MEET ASTM D4956 TYPE IV RETROREFLECTIVE SHEETING MATERIALS.
• CONSIST OF RETROREFLECTIVE SHEETING MATERIALS THAT HAVE A VALID FDOT APPROVED PRODUCT LIST (APL) CERTIFICATION FOR SPECIFICATION 700 HIGHWAY SIGNING FOR FDOT SHEETING TYPE XI (OR TYPE IV FOR SCHOOL AND PEDESTRIAN SIGNS).

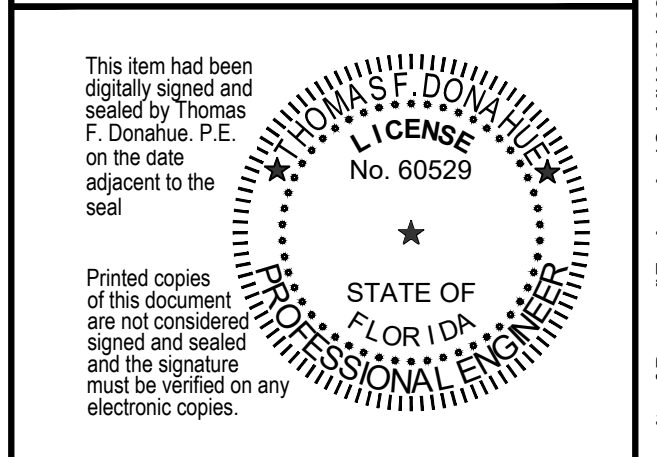
10.13. PATCH ATTACHMENT HARDWARE, SUCH AS COUNTERSUNK SCREWS OR RIVET HEADS, WITH RETRO REFLECTIVE BUTTONS THAT MATCH THE COLOR AND SHEETING MATERIAL OF THE FINISHED SIGN PANEL INCLUDING THE BACKGROUND, LEGEND OR BORDER.
10.14. ENSURE THE OUTSIDE CORNER OF SIGN IS CONCENTRIC WITH BORDER. ENSURE WHITE BORDERS ARE MOUNTED PARALLEL TO THE EDGE OF THE SIGN. ENSURE BLACK BORDERS ARE RECESSED FROM THE EDGE OF THE SIGN.
10.15. LAYOUT PERMANENT FINAL STRIPING THAT LEAVES NO VISIBLE MARKS AT TIME OF FINAL ACCEPTANCE.

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Table with 3 columns: NO., DESCRIPTION, DATE. Title: REVISIONS.

FOR CONSTRUCTION RESPONSIBILITY FOR THE USE OF THESE PLANS PRIOR TO OBTAINING PERMITS FROM ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT WILL FALL SOLELY UPON THE USER.

ISSUE DATE: 10/30/2023
DESIGNED BY: MC/B/BA
DRAWN BY: B/BA
CHECKED BY: TD/MC
BID-CONTRACT:



THOMAS F. DONAHUE, P.E.
FLORIDA REG. NO. 60529
(FOR THE FIRM)



CLIENT
CORAL SPRINGS TOWNHOMES NORTH AND SOUTH

PROJECT
SHEET TITLE
GENERAL NOTES
SHEET NUMBER: GI-001
PROJECT NUMBER: 10431.03



CONSTRUCTION SPECIFICATIONS

SECTION 20 - GENERAL SPECIFICATIONS PAVING GRADING DRAINAGE AND EARTHWORK

20.GENERAL
20.1. IT IS THE INTENT OF THESE SPECIFICATIONS TO DESCRIBE THE MINIMUM ACCEPTABLE TECHNICAL REQUIREMENTS FOR THE MATERIALS AND WORKMANSHIP FOR CONSTRUCTION OF SITE IMPROVEMENTS FOR THIS PROJECT. SUCH IMPROVEMENTS MAY GENERALLY INCLUDE, BUT NOT TO BE LIMITED TO, CLEARING, GRADING, PAVING, REMOVAL OF EXISTING PAVEMENT STORM DRAINAGE, WATER LINES AND SANITARY SEWERS.
20.2. IT IS THE INTENT THAT THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION: (CURRENT EDITION) TOGETHER WITH "SUPPLEMENTAL SPECIFICATIONS TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (CURRENT EDITION), AND THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS (CURRENT EDITION) BE USED WHERE APPLICABLE FOR THE VARIOUS WORK, AND THAT WHERE SUCH WORDING THEREIN REFERS TO THE STATE OF FLORIDA AND ITS DEPARTMENT OF TRANSPORTATION AND PERSONNEL, SUCH WORDING IS INTENDED TO BE REPLACED WITH THE WORDING WHICH WOULD PROVIDE PROPER TERMINOLOGY; THEREBY MAKING SUCH "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" TOGETHER WITH THE "FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS" AS THE "STANDARD SPECIFICATIONS" FOR THIS PROJECT. IF WITHIN A PARTICULAR SECTION, ANOTHER SECTION, ARTICLE OR PARAGRAPH IS REFERRED TO, IT SHALL BE PART OF THE STANDARD SPECIFICATIONS ALSO. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL AND STATE LAWS, REGULATIONS AND BUILDING CODES WHICH HAVE JURISDICTION IN THE AREA.
20.3. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT AND PERFORM ALL OPERATIONS REQUIRED TO COMPLETE THE CONSTRUCTION OF A PAVING AND DRAINAGE SYSTEM AS SHOWN ON THE PLANS, SPECIFIED HEREIN, OR BOTH. IT IS THE INTENT TO PROVIDE A COMPLETE AND OPERATING FACILITY IN ACCORDANCE WITH THESE SPECIFICATIONS AND THE CONSTRUCTION DRAWINGS. THE MATERIAL AND EQUIPMENT SHOWN OR SPECIFIED SHALL NOT BE TAKEN TO EXCLUDE ANY OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK.
20.4. ALL LABOR, MATERIALS, AND METHODS OF CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE PLANS AND CONSTRUCTION SPECIFICATIONS AND THE MINIMUM ENGINEERING AND CONSTRUCTION STANDARDS ADOPTED BY THE UNIT OF GOVERNMENT WHICH HAS JURISDICTION AND RESPONSIBILITY FOR THE CONSTRUCTION. WHERE CONFLICTS OR OMISSIONS EXIST, THE JURISDICTIONAL GOVERNMENT ENGINEERING DEPARTMENT'S STANDARDS SHALL GOVERN. SUBSTITUTIONS AND DEVIATIONS FROM PLANS AND SPECIFICATIONS SHALL BE PERMITTED ONLY WHEN PRIOR APPROVAL HAS BEEN ISSUED BY THE ENGINEER.
20.5. GUARANTEE - ALL MATERIALS AND EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR UNDER THIS CONTRACT, SHALL BE GUARANTEED FOR A PERIOD OF (L) ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE THEREOF, AGAINST DEFECTIVE MATERIALS, DESIGN AND WORKMANSHIP, UPON RECEIPT OF NOTICE FROM THE OWNER OF FAILURE OF ANY PART OF THE GUARANTEED EQUIPMENT OR MATERIALS, DURING THE GUARANTEE PERIOD, THE AFFECTED PART OR MATERIALS SHALL BE REPLACED PROMPTLY WITH NEW PARTS OR MATERIALS BY THE CONTRACTOR, AT NO EXPENSE TO THE OWNER. IN THE EVENT THE CONTRACTOR FAILS TO MAKE NECESSARY REPLACEMENT OR REPAIRS WITHIN (7) SEVEN DAYS AFTER NOTIFICATION BY THE OWNER, THE OWNER MAY ACCOMPLISH THE WORK AT THE EXPENSE OF THE CONTRACTOR.
21.EARTHWORK
21.1. ALL AREAS WITHIN THE PROJECT LIMITS SHALL BE CLEARED AND GRUBBED PRIOR TO CONSTRUCTION. THIS SHALL CONSIST OF THE COMPLETE REMOVAL AND DISPOSAL OF ALL TREES, BRUSH, STUMPS, ROOTS, GRASS, WEEDS, RUBBISH AND ALL OTHER OBSTRUCTIONS RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE EXISTING GROUND TO A DEPTH OF 1'. ALL WORK SHALL BE IN ACCORDANCE WITH SECTION 110 OF THE STANDARD SPECIFICATIONS.
21.2. NONE OF THE EXISTING LIMEROCK MATERIAL FROM DEMOLISHED PAVEMENT IS TO BE INCORPORATED IN THE NEW LIMEROCK BASE, UNLESS NOTED IN PLANS. THE EXISTING LIMEROCK MATERIAL FROM DEMOLISHED PAVEMENT MAY BE INCORPORATED INTO THE STABILIZED SUBGRADE / SUBBASE, OR STABILIZED SHOULDER.
21.3. FILL MATERIAL SHALL BE CLASSIFIED AS A-1, A-3, OR A-2-4 IN ACCORDANCE WITH AASHTO M-145 AND SHALL BE FREE FROM VEGETATION AND ORGANIC MATERIAL, NOT MORE THAN 12% BY WEIGHT OF FILL MATERIAL SHALL PASS THE NO. 200 SIEVE.
21.4. ALL FILL MATERIAL IN AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.
21.5. ALL MATERIAL OF CONSTRUCTION SHALL BE SUBJECT TO INSPECTION AND TESTING TO ESTABLISH CONFORMANCE WITH THE SPECIFICATIONS AND SUITABLY FOR THE USES INTENDED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 24 HOURS PRIOR TO THE TIME HE WILL BE READY FOR AN INSPECTION OR TEST. THE CONTRACTOR SHALL FOLLOW CITY AND COUNTY INSPECTION PROCEDURES. THE CONTRACTOR SHALL NOT PROCEED WITH ANY PHASE OF WORK DEPENDENT ON AN INSPECTION OR TEST OF AN EARLIER PHASE OF WORK, PRIOR TO THAT TEST OR INSPECTION PASSING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CERTIFIED MATERIAL TEST RESULTS TO THE ENGINEER OF RECORD PRIOR TO THE RELEASE OF FINAL CERTIFICATION BY THE ENGINEER. TEST RESULTS MUST INCLUDE, BUT MAY NOT BE LIMITED TO, DENSITIES FOR SUBGRADE AND LIMEROCK, UTILITIES, EXCAVATION, ASPHALT GRADATION REPORTS, CONCRETE CYLINDERS, ETC.
21.6. WHEN ENCOUNTERED, MUCK SHALL BE COMPLETELY REMOVED FROM THE CENTER LINE (10) TEN FEET BEYOND THE EDGE OF PAVEMENT EACH SIDE. ALL SUCH MATERIAL SHALL BE REPLACED BY APPROVED GRANULAR FILL.
21.7. WHEN ENCOUNTERED WITHIN DRAINAGE SWALES, HARDPAN SHALL BE REMOVED TO FULL DEPTH FOR A WIDTH OF (5) FIVE FEET AT THE INVERT AND REPLACED WITH GRANULAR MATERIALS.
21.8. ALL UNDERGROUND UTILITIES AND DRAINAGE INSTALLATIONS SHALL BE IN PLACE PRIOR TO SUBGRADE COMPACTION AND PAVEMENT CONSTRUCTION.
21.9. GROUND ADJACENT TO ROADWAY/PAVEMENT HAVING RUNOFF SHALL BE GRADED (2) TWO INCHES LOWER THAN THE EDGE OF PAVEMENT TO ALLOW FOR THE PLACEMENT OF SOD.
21.10.SITE GRADING ELEVATIONS SHALL BE WITHIN 0.1' OF THE REQUIRED ELEVATION FOR NON PAVED AREAS AND ALL AREAS SHALL BE GRADED TO DRAIN WITHOUT PONDING.
21.11.THE CONTRACTOR SHALL PERFORM ALL EXCAVATION, FILL, EMBANKMENT AND GRADING TO ACHIEVE THE PROPOSED PLAN GRADES

INCLUDING TYPICAL ROAD SECTIONS, SIDE SLOPES AND CANAL SECTIONS. ALL WORK SHALL BE IN ACCORDANCE WITH SECTION 120 OF THE STANDARD SPECIFICATIONS. IF FILL MATERIAL IS REQUIRED IN EXCESS OF THAT GENERATED BY THE EXCAVATION, THE CONTRACTOR SHALL SUPPLY THIS MATERIAL AS REQUIRED FROM OFF-SITE.
21.12. A 2" BLANKET OF TOP SOIL SHALL BE PLACED OVER ALL AREAS TO BE SODDED OR SEEDED AND MULCHED WITHIN THE PROJECT LIMITS UNLESS OTHERWISE INDICATED ON THE PLANS.
21.13.SOD SHALL BE ST. AUGUSTINE UNLESS OTHERWISE INDICATED ON THE PLANS, AND SHALL BE PLACED ON THE GRADED TOP SOIL AND WATERED TO INSURE SATISFACTORY CONDITION UPON FINAL ACCEPTANCE OF THE PROJECT.
22.DRAINAGE
22.1. INLETS - ALL INLETS SHALL BE THE TYPE DESIGNATED ON THE PLANS, AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 425 OF THE STANDARD SPECIFICATIONS. ALL INLETS AND PIPE SHALL BE PROTECTED DURING CONSTRUCTION TO PREVENT SILTATION IN THE DRAINAGE SYSTEMS BY WAY OF TEMPORARY PLUGS AND PLWOOD OR PLASTIC COVERS OVER THE INLETS. THE ENTIRE DRAINAGE SYSTEM SHALL BE CLEANED OF ALL DEBRIS PRIOR TO FINAL ACCEPTANCE.
22.2. PIPE SPECIFICATIONS: THE MATERIAL TYPE IS SHOWN ON THE DRAWINGS BY ONE OF THE FOLLOWING DESIGNATIONS:
• RCP = REINFORCED CONCRETE PIPE, ASTM DESIGNATION C-76, SECTION 941 OF THE STANDARD SPECIFICATIONS.
• CMP = CORRUGATED METAL (ALUMINUM) PIPE, ASTM DESIGNATION M-196.
• CMP (SMOOTH LINED) = CORRUGATED METAL ALUMINUM PIPE, (SMOOTH LINED) ASTM DESIGNATION M-196.
• SCP = SLOTTED CONCRETE PIPE, SECTIONS 941 AND 942, OF THE STANDARD SPECIFICATIONS.
• PVC = POLYVINYL CHLORIDE PIPE.
• PCMP = PERFORATED CMP, SECTION 945, OF THE STANDARD SPECIFICATIONS
• CORRUGATED HIGH DENSITY POLYETHYLENE PIPE (HDPE) (12 INCHES TO 60 INCHES), SHALL MEET THE REQUIREMENTS OF FOOT SPECIFICATION SECTION 948-2.3.
22.3. PIPE BACKFILL - REQUIREMENTS FOR PIPE BACKFILL CROSSING ROADS OR PARKING AREAS SHALL BE AS DEFINED IN THE SECTION 125-8, OF THE STANDARD SPECIFICATIONS. PIPELINE BACKFILL SHALL BE PLACED IN 6 INCH LIFTS AND COMPACTED TO 100% OF THE STANDARD PROCTOR (AASHTO T-99 SPECIFICATIONS)
22.4. LOCATION OF DRAINAGE STRUCTURES SHALL GOVERN, AND PIPE LENGTH MAY HAVE TO BE ADJUSTED TO ACCOMPLISH CONSTRUCTION AS SHOWN ON THESE PLANS.
22.5. DISTANCE AND LENGTHS SHOWN ON PLANS AND PROFILE DRAWINGS ARE REFERENCED TO THE INNER WALLS OF STRUCTURES.
22.6. FILTER FABRIC SHALL BE MIRAFI, TYPAR OR EQUAL CONFORMING TO SECTION 985 OF THE STANDARD SPECIFICATIONS.
23.ASPHALT PAVING
23.1. WHERE NEW ASPHALT MEETS EXISTING ASPHALT, THE EXISTING ASPHALT SHALL BE SAW CUT TO PROVIDE A STRAIGHT EVEN LINE. PRIOR TO REMOVING CURB OR GUTTER, THE ADJACENT ASPHALT SHALL BE SAW CUT TO PROVIDE A STRAIGHT EVEN LINE.
23.2. INTERNAL ASPHALT PAVING CONSTRUCTED ON EXISTING SANDY SOILS SHALL BE CONSTRUCTED WITH A 12" SUBGRADE, COMPACTED TO A MINIMUM DENSITY OF 100% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99. THE COMPACTED SUBGRADE SHALL BE CONSTRUCTED IN THE LIMITS SHOWN ON THE PLANS. ALL SUBGRADE SHALL HAVE AN LBR OF 40 UNLESS OTHERWISE NOTED.
23.3. ASPHALTIC CONCRETE SURFACE COURSE SHALL BE CONSTRUCTED TO THE LIMITS SHOWN ON THE PLANS. THE SURFACE COURSE SHALL CONSIST OF THE THICKNESS AND TYPE ASPHALTIC CONCRETE AS SPECIFIED IN THE PLANS. ALL ASPHALTIC CONCRETE SHALL BE IN ACCORDANCE WITH SECTIONS 320, 327, 330, 334, 336, 337, 338, 339 AND 341 OF THE STANDARD SPECIFICATIONS.
23.4. LIMEROCK BASE SHALL BE PREPARED, COMPACTED AND GRADED AND SHALL BE IN ACCORDANCE WITH SECTION 200 OF THE STANDARD SPECIFICATIONS. ALL LIMEROCK SHALL BE COMPACTED TO 98% PER AASHTO T-180 AND HAVE NOT LESS THAN 70% OF CARBONATES OF CALCIUM AND MAGNESIUM UNLESS OTHERWISE DESIGNATED. THE ENGINEER SHALL INSPECT THE COMPLETED BASE COURSE AND THE CONTRACTOR SHALL CORRECT ANY DEFICIENCIES AND CLEAN THE BASE COURSE PRIOR TO THE PLACEMENT OF THE PRIME COAT. A TACK COAT WILL ALSO BE REQUIRED IF THE ENGINEER FINDS THAT THE PRIMED BASE HAS BECOME EXCESSIVELY DIRTY OR THE PRIME COAT HAS CURSED TO THE EXTENT OF LOSING BOUNDING EFFECT PRIOR TO PLACEMENT OF THE ASPHALTIC CONCRETE SURFACE COURSE. THE PRIME AND TACK COATS SHALL BE IN ACCORDANCE WITH SECTION 300 OF THE STANDARD SPECIFICATIONS.
23.5. LIMEROCK BASE MATERIAL SHALL BE PLACED IN MAXIMUM 6" LIFTS. BASES GREATER THAN 6" SHALL BE PLACED IN TWO EQUAL LIFTS. IF, THROUGH FIELD TESTS, THE CONTRACTOR CAN DEMONSTRATE THAT THE COMPACTION EQUIPMENT CAN ACHIEVE DENSITY FOR THE FULL DEPTH OF A THICKER LIFT, AND IF APPROVED BY THE ENGINEER, THE BASE MAY BE CONSTRUCTED IN SUCCESSIVE COURSES OF NOT MORE THAN 8 INCHES (200 MM) COMPACTED THICKNESS.
23.6. ASPHALT EDGES THAT ARE NOT CURBED SHALL BE SAW CUT TO PROVIDE A STRAIGHT EVEN LINE TO THE DIMENSIONS SHOWN ON PLANS.
24.CONCRETE CONSTRUCTION
24.1. CONCRETE SIDEWALK SHALL BE IN ACCORDANCE WITH SECTION 522 OF THE STANDARD SPECIFICATIONS AND IN ACCORDANCE WITH F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS, INDEX NO. 310. CONCRETE SIDEWALK SHALL BE 4" THICK, UNLESS OTHERWISE NOTED AND CONSTRUCTED ON COMPACTED SUBGRADE, WITH 1/2" EXPANSION JOINTS PLACED AT A MAXIMUM OF 75', UNLESS OTHERWISE NOTED ON PLANS. CRACK CONTROL JOINTS SHALL BE 5' ON CENTER. ALL CONCRETE SIDEWALKS THAT CROSS DRIVEWAYS SHALL BE 6" THICK, UNLESS OTHERWISE NOTED ON PLANS.
24.2. SIDEWALK CURB RAMPS SHALL BE IN ACCORDANCE WITH F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS, INDEX NO. 304.
24.3. CONCRETE CURB SHALL BE CONSTRUCTED TO THE LIMITS SHOWN ON THE PLANS. THE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS AND SHALL BE IN ACCORDANCE WITH SECTION 520 OF THE STANDARD SPECIFICATIONS. CONCRETE CURBING SHALL BE IN ACCORDANCE WITH F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS, INDEX NO. 300.
SECTION 30 - WATER DISTRIBUTION AND SANITARY SEWER FORCE MAINS.
30. MATERIALS:
NOTE: IF MATERIALS LIST HERE ON ARE IN CONFLICT WITH UTILITY OWNER, MATERIAL OWNER REQUIREMENTS SHALL GOVERN.

30.1. ALL WATER MAIN PIPE, INCLUDING FITTINGS, SHALL BE COLOR CODED OR MARKED USING BLUE AS A PREDOMINANT COLOR TO DIFFERENTIATE DRINKING WATER FROM RECLAIMED OR OTHER WATER. UNDERGROUND PLASTIC PIPE SHALL BE SOLID-WALL BLUE PIPE. SHALL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR SHALL BE WHITE OR BLACK PIPE WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL, AND UNDERGROUND METAL OR CONCRETE PIPE SHALL HAVE BLUE STRIPES APPLIED TO THE PIPE WALL. PIPE STRIPED DURING MANUFACTURING OF THE PIPE SHALL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING INSTALLATION OF THE PIPE, THE TAPE OR PAINT SHALL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE; FOR PIPES WITH AN INTERNAL DIAMETER OF 24 INCHES OR GREATER, TAPE OR PAINT SHALL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE.
30.2. DUCTILE IRON PIPE FOR WATER DISTRIBUTION MAINS SHALL CONFORM TO ANSIIAWWA STANDARD C151/A21.51 LATEST REVISION, "DUCTILE IRON PIPE CENTRIFUGALLY CAST IN METAL MOLDS OR SAND-LINED MOLDS" WITH A MINIMUM WALL THICKNESS OF CLASS 51 (PRESSURE CLASS 350) UNLESS OTHERWISE NOTED IN THE PLANS. DUCTILE IRON PIPE SHALL BE CEMENT LINED AND SEAL COATED IN ACCORDANCE WITH ANSIIAWWA STANDARD C104/A21.4 LATEST REVISION. THE PIPE SHALL BE ADAPTED FOR USE WITH CLASS 250 FITTINGS FOR ALL SIZES. WATER MAIN SHALL BE COLORED BLUE IN ACCORDANCE WITH FLORIDA STATE STATUTES.
30.3. DUCTILE IRON PIPE FOR SEWAGE FORCE MAINS SHALL CONFORM TO ANSIIAWWA STANDARD C151/A21.51 LATEST REVISION, "DUCTILE IRON PIPE CENTRIFUGALLY CAST IN METAL MOLDS OR SAND- LINED MOLDS" WITH A MINIMUM WALL THICKNESS OF CLASS 51 (PRESSURE CLASS 350) UNLESS OTHERWISE NOTED IN THE PLANS. DUCTILE IRON PIPE SHALL BE INTERIOR CERAMIC EPOXY LINED AND EXTERIOR COATED WITH THE MANUFACTURER'S COATING SYSTEM (PROTECTO 401 CERAMIC EPOXY WITH A MINIMUM DRY FILM THICKNESS OF 40 MILS AND AN OUTSIDE COATING OF EITHER COAL TAR EPOXY OR ASPHALT). CEMENT MORTARED LININGS ARE NOT APPROPRIATE FOR THIS APPLICATION.
30.4. ALL PIPE & FITTINGS ON THE LIFT STATION SITES SHALL BE DUCTILE IRON CONFORMING TO THE SAME SPECIFICATIONS AS ABOVE FOR SEWAGE FORCE MAINS EXCEPT THAT FLANGED DUCTILE IRON PIPE & FITTINGS SHALL BE USED INSIDE VALVE PITS AND WET WELLS. FLANGED PIPE AND FITTINGS SHALL CONFORM TO ANSIIAWWA C115/A21.15 LATEST REVISION AND ANSIIAWWA C110/A21.10 LATEST REVISION. THE FOLLOWING THICKNESS CLASSES SHALL BE ADHERED TO: 4" - 12" - CLASS 52, 14" & LARGER - CLASS 51.
30.5. PVC PRESSURE PIPE FOR SIZES 4" THROUGH 12" AND SHALL CONFORM TO ANSIIAWWA STANDARD C900 LATEST REVISION. PVC PRESSURE PIPE SHALL BE MADE FROM CLASS 1245-A OR CLASS 1245-B VIRGIN MATERIAL AND CONFORM WITH THE OUTSIDE DIAMETER OF CAST IRON PIPE WITH A MINIMUM WALL THICKNESS OF DR SERIES 18. ULTRA VIOLET DEGRADATION OR SUN BLEACHED PIPE WILL BE CAUSE FOR REJECTION. WATER MAIN SHALL BE COLORED BLUE IN ACCORDANCE WITH FLORIDA STATE STATUTES. FORCE MAIN SHALL BE IMPREGNATED WITH GREEN PIGMENT. REUSE MAIN SHALL BE IMPREGNATED WITH PURPLE PIGMENT.
30.6. DUCTILE IRON FITTINGS FOR WATER DISTRIBUTION MAINS SHALL CONFORM TO ANSIIAWWA STANDARD C110/A21.10 LATEST REVISION. FITTINGS 4" AND LARGER SHALL BE CEMENT LINED AND SEAL COATED IN ACCORDANCE WITH ANSIIAWWA STANDARD C104/A21.4 LATEST REVISION. WATER MAIN FITTING SHALL BE COLORED BLUE IN ACCORDANCE WITH FLORIDA STATE STATUTES.
30.7. CAST IRON AND DUCTILE IRON FITTINGS FOR SEWAGE FORCE MAINS SHALL CONFORM TO ANSIIAWWA STANDARD C110/A21.10 LATEST REVISION. FITTINGS 4" AND LARGER SHALL BE COATED IN ACCORDANCE WITH THE REQUIREMENTS OF DUCTILE IRON PIPE FOR SEWAGE FORCE MAINS.
30.8. JOINTS FOR BELL AND SPIGOT DUCTILE IRON PIPE AND FITTINGS SHALL CONFORM TO ANSIIAWWA STANDARD C111/A21.11 LATEST REVISION. MECHANICAL JOINT OR PUSH-ON JOINT TO BE RUBBER GASKET COMPRESSION-TYPE. SPECIAL FITTINGS AND JOINTS SHALL BE CONSIDERED FOR SPECIFIC INSTALLATION SUBJECT TO THE APPROVAL OF THE ENGINEER.
30.9. JOINTS FOR PVC PRESSURE PIPE SHALL BE BELL AND SPIGOT PUSH-ON RUBBER GASKET TYPE ONLY. NO SOLVENT WELD OR TREADED JOINTS WILL BE PERMITTED.
30.10. WATER DISTRIBUTION SYSTEM RESTRAINT: ALL FITTINGS AND SPECIFIC PIPE JOINTS SHALL BE RESTRAINED AS OUTLINED BELOW:
• JOINT RESTRAINT
• PUSH-ON P.V.C. EBAA IRON SERIES 1600
• PUSH-ON DIP EBAA IRON SERIES 1700
• TR-FLEX BY U.S. PIPE OR
• FLEX RING BY AMERICAN
• FITTINGS W/ DIP EBAA IRON SERIES 1100 MEGALUG
• FITTINGS W/ P.V.C. EBAA IRON SERIES 2000 MEGALUG
• LENGTH OF RESTRAINED PIPE SHALL BE AS INDICATED ON RESTRAINED JOINT PIPE DETAIL. (SEE WATER & SEWER DETAIL SHEET)
30.11. SEWAGE FORCE MAIN SYSTEM RESTRAINT: ALL FITTINGS AND SPECIFIC PIPE JOINTS SHALL BE RESTRAINED AS OUTLINED BELOW
• JOINT RESTRAINT
• PUSH-ON P.V.C. EBAA IRON SERIES 1600
• PUSH-ON DIP EBAA IRON SERIES 1700
• TR-FLEX BY U.S. PIPE OR
• FLEX RING BY AMERICAN
• FITTINGS W/ DIP EBAA IRON SERIES 1100 MEGALUG
• FITTINGS W/ P.V.C. EBAA IRON SERIES 2000 MEGALUG
• LENGTH OF RESTRAINED PIPE SHALL BE AS INDICATED ON RESTRAINED JOINT PIPE DETAIL. (SEE WATER & SEWER DETAIL SHEET)
30.12. WATER DISTRIBUTION VALVES SHALL BE GATE VALVES, IRON BODY, FULLY RESILIENT SEAT BRONZED MOUNTED NON-RISING STEM, RATED AT 200 PSI AND CONFORMING TO ANSIIAWWA C509 LATEST REVISION, AND SHALL HAVE MECHANICAL JOINTS.
30.12.1. GATE VALVES 4" AND LARGER SHALL BE MUELLER A-2361/2362, AMERICAN 250 LINE OR CLOW F-6100, CONFORMING TO ANSIIAWWA C500 LATEST REVISION OR APPROVED EQUAL.
30.12.2. TAPPING VALVES SHALL BE MUELLER T-2361/2362 OR APPROVED EQUAL.
30.12.3. GATE VALVES 3" OR LESS SHALL BE NIBCO T-133 OR T-136 WITH MALLEABLE HAND WHEELS OR APPROVED EQUAL.
30.13. TAPPING SLEEVES SHALL BE MUELLER H615, CLOW F- 2505 OR APPROVED EQUAL.

30.14. VALVE BOXES SHALL BE U.S. FOUNDRY 7500 OR APPROVED EQUAL PAINTED BLUE WITH THE DESIGNATION "WATER".
30.15. RETAINER GLANDS FOR DIP SHALL CONFORM TO ANSIIAWWA C111/A21.11 LATEST REVISION. ALL GLANDS SHALL BE MANUFACTURED FROM DUCTILE IRON AS LISTED BY UNDERWRITERS LABORATORIES FOR 250 PSI MINIMUM WATER PRESSURE RATING. CLOW CORPORATION MODEL F-1058, STANDARD FIRE PROTECTION EQUIPMENT COMPANY OR APPROVED EQUAL.
30.16. DRESSER COUPLINGS SHALL BE REGULAR BLACK COUPLINGS WITH PLAIN GASKETS FOR GALVANIZED STEEL PIPE. THEY SHALL BE DRESSER STYLE 90. NO SUBSTITUTIONS ALLOWED.
30.17. FIRE HYDRANTS SHALL BE MUELLER CENTURION TRAFFIC TYPE A-423 WITH 5 1/4" INTERNAL VALVE OPENING OR APPROVED EQUAL. PUMPER NOZZLE TO BE 18" FROM FINISHED GRADE. ALL HYDRANTS TO BE INSTALLED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE; FOR PIPES WITH AN INTERNAL DIAMETER OF 24 INCHES OR GREATER, TAPE OR PAINT SHALL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE.
30.18. SEWAGE FORCE MAIN VALVES SHALL BE PLUG VALVES WHICH SHALL BE OF THE NON-LUBRICATED, ECCENTRIC TYPE WITH RESILIENT FACED PLUGS, PORT AREAS FOR VALVES 20 INCHES AND SMALLER SHALL BE AT LEAST 80% OF FULL PIPE AREA. PORT AREA OF VALVES 24 INCHES AND LARGER SHALL BE AT LEAST 70% OF FULL PIPE AREA. THE BODY SHALL BE OF SEMI-STEEL (ASTM A-126 C1 B) AND SHALL HAVE BOLTED BONNET WHICH GIVES ACCESS TO THE INTERNALS OF THE VALVE. SEATS SHALL BE WELDED OVERLAY OF HIGH NICKEL CONTENT OR A STAINLESS STEEL PLATE LOCKED IN THE BODY CAVITY. IF A PLATE IS USED, IT SHALL BE REPLACEABLE THROUGH THE BONNET ACCESS. BEARINGS SHALL BE PERMANENTLY LUBRICATED OF STAINLESS STEEL. BRONZE OR TEFLOX LINED, FIBER GLASS BACKED DURALON. BEARING AREAS SHALL BE ISOLATED FROM THE FLOW WITH GRIT SEALS. VALVES SHALL HAVE PACKING BONNETS WHERE THE SHAFT PROTRUDES FROM THE VALVE AND THE PACKING SHALL BE SELF-ADJUSTING CHEVRON TYPE WHICH CAN BE REPLACED WITHOUT REMOVING THE BONNET. ALL NUTS, BOLTS, SPRINGS AND WASHERS SHALL BE STAINLESS STEEL.
30.19. PLUG VALVES SHALL BE DESIGNED FOR A WORKING PRESSURE OF 150 PSI THE VALVE AND ACTUATOR SHALL BE CAPABLE OF SATISFACTORY OPERATION IN EITHER DIRECTION OF FLOW AGAINST PRESSURE DROPS UP TO AND INCLUDING 100 PSI (FOR PLUG VALVES OVER 12" IN DIAMETER). VALVES SHALL BE BUBBLE TIGHT IN BOTH DIRECTIONS AT 100 PSI DIFFERENTIAL. PLUG VALVES OVER 12" IN DIAMETER SHALL HAVE WORM GEAR OPERATORS. THE OPERATING MECHANISM SHALL BE FOR BURIED SERVICE WITH A 2 INCH SQUARE OPERATING NUT.
30.20. PLUG VALVES ARE TO BE INSTALLED WITH THE SEAT POINTED TOWARDS THE UPSTREAM FLOW, WHEN SPECIFIED.
30.21. SWING CHECK VALVES FOR WATER, SEWAGE, SLUDGE, AND GENERAL SERVICE SHALL BE OF THE OUTSIDE LEVER AND SPRING OR WEIGHT TYPE, IN ACCORDANCE WITH ANSIIAWWA C 508 LATEST REVISION SWING-CHECK VALVES FOR WATERWORKS SERVICE, 2" THROUGH 24" NPS, UNLESS OTHERWISE INDICATED. WITH FULL-OPENING PASSAGES, DESIGNED FOR A WATER-WORKING PRESSURE OF 150 PSI THEY SHALL HAVE A FLANGED COVER PIECE TO PROVIDE ACCESS TO THE DISC.
30.22. HIGH DENSITY POLYETHYLENE PIPE (HDPE) FOR WATER DISTRIBUTION MAINS SHALL CONFORM TO AWWA C906 STANDARD, LATEST REVISION. PIPES SHALL BE COLOR-CODED BLUE, MINIMUM 40 FEET STANDARD LENGTHS.
31. SERVICE CONNECTION:
31.1. SERVICE SADDLES SHALL BE FUSION BONDED PLASTIC COATED DUCTILE IRON (ASTM A536) WITH STAINLESS STEEL STRAPS, SADDLES SHALL BE DOUBLE STRAP TYPE.
31.2. SERVICE LINES SHALL BE POLYETHYLENE (PE 3408), 200 P.S.I. RATED, DR9. PIPE JOINTS SHALL BE OF THE COMPRESSION TYPE TOTALLY CONFINED GRIP SEAL AND COUPLING NUT.
31.3. CORPORATION STOPS SHALL BE MANUFACTURED OF BRASS ALLOY IN ACCORDANCE WITH ASTM B-62 WITH TREADED ENDS, AS MANUFACTURED BY FORD BALLCORP. CATALOG # 1100 OR APPROVED EQUAL.
31.4. CURB STOPS SHALL BE FORD V63-44W-X" LATEST REVISION OR APPROVED EQUAL.
31.5. METER STOPS SHALL BE 90 DEGREE LOCKWING TYPE AND SHALL BE OF BRONZE CONSTRUCTION IN ACCORDANCE FV63-777W" LATEST REVISION WITH ASTM B-62. METER STOPS SHALL BE CLOSED BOTTOM DESIGN AND RESILIENT "O" RING SEALED AGAINST EXTERNAL LEAKAGE AT THE TOP. STOPS SHALL BE EQUIPPED WITH A METER COUPLING NUT ON THE OUTLET SIDES, AS MANUFACTURED BY FORD OR APPROVED EQUAL.
32. INSTALLATION:
32.1. WHERE RESTRAINED PIPE JOINTS ARE REQUIRED DUE TO FITTINGS, APPURTENANCES, ETC., PIPE MATERIAL SHALL BE DIP
32.2. ALL PVC PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE UNI-BELL PLASTIC PIPE ASSOCIATION "GUIDE FOR INSTALLATION OF PVC PRESSURE PIPE FOR MUNICIPAL WATER DISTRIBUTION SYSTEM," AND ANSIIAWWA C605-XX LATEST REVISION STANDARD.
32.3. ALL DIP SHALL BE INSTALLED IN ACCORDANCE WITH ANSII C600-XX LATEST REVISION.
32.4. ALL WATER MAINS SHALL TYPICALLY BE LAID WITH A MINIMUM 36" COVER FOR PVC AND 30" COVER FOR DIP.
32.5. DETECTOR TAPE SHALL BE LAID 18 INCHES ABOVE ALL WATER AND SEWER LINES. A 14 GAUGE MULTI-STRAND WIRE SHALL BE ATTACHED TO ALL NONCONDUCTIVE WATER MAINS TO FACILITATE LOCATION. AN EXTRA 4 FEET OF WIRE SHALL BE PROVIDED AT ALL VALVES, BLOW-OFFS, HYDRANTS, ETC. THE WIRE SHALL BE TESTED FOR CONTINUITY AT THE PRESSURE TEST.
32.6. PIPE DEFLECTION SHALL NOT EXCEED 50% OF THE MAXIMUM DEFLECTION RECOMMENDED BY THE MANUFACTURER.
32.7. A CONTINUOUS AND UNIFORM BEDDING SHALL BE PROVIDED. BACKFILL MATERIAL SHALL BE PLACED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
32.8. ALL VALVES SHALL BE INSTALLED WITH ADJUSTABLE CAST IRON VALVE BOXES WITH THE WORD "WATER" OR "SEWER", AS APPLICABLE, CAST IN THE COVER. U.S. FOUNDRY OR APPROVED EQUAL.
33. TESTING:
33.1. BEFORE ANY PHYSICAL CONNECTIONS AND ACCEPTANCE FOR OPERATION TO THE EXISTING WATER MAINS ARE MADE, THE COMPLETE WATER SYSTEM SHALL BE FLUSHED, PRESSURE TESTED AND DISINFECTED. COPIES OF PASSING BACTERIOLOGICAL RESULTS AND PRESSURE TEST RESULTS MUST BE SUBMITTED TO, AND APPROVED BY, THE ENGINEER, UTILITY OWNER, AND HEALTH DEPARTMENT. HYDROSTATIC TESTING OF NEW MAINS SHALL BE PERFORMED AT A MINIMUM STARTING PRESSURE OF 150 PSI FOR TWO HOURS IN ACCORDANCE WITH ANSIIAWWA C600-05 (HYDROSTATIC TEST). THE PRESSURE TEST SHALL NOT VARY MORE THAN 5 PSI DURING THE

TEST. THE ALLOWABLE LEAKAGE DURING THE PRESSURE TEST SHALL BE LESS THAN THE NUMBER OF GALLONS PER HOUR AS DETERMINED BY THE FORMULA:
L = (SD/P)1/2/148,000.
IN WHICH L EQUALS THE ALLOWABLE LEAKAGE IN GALLONS PER HOUR. S EQUALS LENGTH OF PIPE (LINEAR FEET), D EQUALS NOMINAL DIAMETER OF PIPE (INCHES) AND P EQUALS THE AVERAGE TEST PRESSURE (POUNDS PER SQUARE INCH GAUGE). MAXIMUM LENGTH OF TEST PIPE SECTION SHOULD BE 2000 FEET. THE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH THE ANSIIAWWA C651-05 (WATER MAIN BACTERIOLOGICAL TESTS).
33.2. THE PRESSURE TEST SHALL BE WITNESSED BY A REPRESENTATIVE OF THE UTILITY OWNER AND THE ENGINEER OF RECORD.
33.3. FOR WATER DISTRIBUTION PIPES, SAMPLING POINTS SHALL BE PROVIDED BY THE CONTRACTOR AT THE LOCATIONS SHOWN ON THE PLANS.
33.4. FOR WATER DISTRIBUTION PIPES, DISINFECTION AND BACTERIOLOGICAL TESTING SHALL BE IN ACCORDANCE WITH ANSIIAWWA C651-14 (WATER MAIN BACTERIOLOGICAL TESTS). MAXIMUM DISTANCE BETWEEN SAMPLING POINTS SHALL BE AS FOLLOWS:
• TRANSMISSION MAINS: EVERY 1200 FEET
• BRANCH MAINS: EVERY 1000 FEET
• ISOLATED MAINS < 1000 FEET: 2 SAMPLE POINTS
• ISOLATED MAINS > 1000 FEET: 3 SAMPLE POINTS

SECTION 40 - GRAVITY SANITARY SEWER COLLECTION SYSTEM
40.GENERAL:
40.1. MANHOLE, VALVE BOX, METER BOX AND OTHER STRUCTURE RIM ELEVATIONS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE ADJUSTED TO CONFORM TO PLAN GRADES PROPOSED IN THESE PLANS. IF NO OTHER INDIVIDUAL COST ITEM IS INCLUDED IN THE CONTRACT SCHEDULE FOR A PARTICULAR STRUCTURE ADJUSTMENT.
40.2. DISTANCE AND LENGTHS SHOWN ON PLANS AND PROFILE DRAWINGS ARE REFERENCED TO THE CENTER OF STRUCTURES.
41. MATERIALS:
NOTE: IF MATERIALS LIST HERE ON ARE IN CONFLICT WITH UTILITY OWNER, MATERIAL OWNER REQUIREMENTS SHALL GOVERN.
41.1. ALL PVC SEWER PIPE AND FITTINGS SHALL BE NON-PRESSURE POLYVINYL CHLORIDE (PVC) PIPE CONFORMING TO ASTM D 3034, SDR 26, WITH PUSH-ON RUBBER GASKET JOINTS.
41.2. DUCTILE IRON PIPE SHALL CONFORM TO ANSIIAWWA C151/A21.51-XX LATEST REVISION, "DUCTILE IRON PIPE CENTRIFUGALLY CAST IN METAL MOLDS OR SAND-LINED MOLDS" WITH WALL THICKNESS CLASS 51 FOR 8" AND ABOVE, CLASS 52 FOR 4" AND 6", UNLESS OTHERWISE DIRECTED BY THE ENGINEER. DUCTILE IRON PIPE SHALL BE EPOXY LINED OR COATED WITH THE MANUFACTURER'S COATING SYSTEM AS APPROVED BY THE ENGINEER OF RECORD AND THE LOCAL MUNICIPALITY OR UTILITY OWNER. IN EITHER CASE, THE ENGINEER'S REVIEW AND APPROVAL IS REQUIRED FOR EITHER ALTERNATIVE PRIOR TO CONSTRUCTION. CEMENT MORTARED LININGS ARE NOT APPROPRIATE FOR THIS APPLICATION.
41.3. ALL DUCTILE IRON FITTINGS SHALL CONFORM TO ANSIIAWWA STANDARD C110/A21.10-XX LATEST REVISION. ALL FITTINGS AND ACCESSORIES SHALL BE EPOXY LINED AND AS MANUFACTURED OR SUPPLIED BY THE PIPE MANUFACTURER OR APPROVED EQUAL.
41.4. MANHOLES SHALL BE PRECAST PER ASTM C 478 AND IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
41.5. MANHOLES ARE TO BE SEALED WITH TYPE II SULPHATE RESISTANT CEMENT OR APPROVED EQUAL - NO MOLDING PLASTER.
41.6. JOINTS FOR BELL AND SPIGOT DUCTILE IRON PIPE AND FITTINGS SHALL CONFORM TO ANSIIAWWA STANDARD C111/A21.11-XX LATEST REVISION. MECHANICAL JOINT OR PUSH-ON JOINT TO BE RUBBER GASKET COMPRESSION- TYPE.
41.7. PVC CLEAN-OUTS TO HAVE SCREW TYPE ACCESS PLUG. LONG RADIUS WYE CONNECTIONS AND FITTINGS SHALL BE USED IN ORDER TO ACCESS CLEAN-OUT OPERATIONS.
41.8. CLEANOUTS SHALL BE INSTALLED AT ALL SEWER SERVICES EXCEEDING 75' IN LENGTH (EVERY 75') WITH A CLEAN OUT AT THE PROPERTY LINE, EASEMENT LINE, OR 5' FROM A BUILDING. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF THE BUILDING CLEANOUT (5' FROM THE BUILDING) AND ELEVATION OF THE END OF THE SEWER SERVICE WITH THE BUILDING PLUMBING CONTRACTOR. CLEANOUTS SHALL BE THE SAME SIZE AS THE SERVICE LATERAL IN WHICH THEY ARE INSTALLED.
42. INSTALLATION:
42.1. PVC SEWER PIPE SHALL BE LAID IN ACCORDANCE WITH ASTM D 2321 AND THE UNI-BELL PLASTIC PIPE ASSOCIATION'S "RECOMMENDED PRACTICE FOR THE INSTALLATION OF PVC SEWER PIPE."
42.2. DIP SHALL BE INSTALLED IN ACCORDANCE WITH ANSIIAWWA C-600-XX LATEST REVISION.
42.3. PIPE TO MANHOLE CONNECTION TO BE FERRO NEOPRENE BOOT COUPLINGS WITH STAINLESS STEEL ACCESSORIES OR APPROVED EQUAL.
42.4. MANHOLES SHALL BE SET PLUMB TO LINE AND GRADE ON FIRM SUBGRADE PROVIDING UNIFORM BEARING UNDER THE BASE.
42.5. ALL OPENINGS AND JOINTS SHALL BE SEALED WATERTIGHT.
42.6. TWO COATS OF KOPPERS 300-M, FIRST RED, SECOND ONE BLACK, SHALL BE APPLIED TO THE INSIDE OF ALL MANHOLES AND SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS (16 MILS PER COAT). COATING AS REQUIRED BY UTILITY OWNER OR ENGINEER SHALL BE APPLIED TO THE OUTSIDE OF THE MANHOLE. THE INTERIOR COATS SHALL BE APPLIED AFTER SEWER LAMPING OF LINES. AFTER THE APPLICATION OF EACH COAT, THE UTILITY OWNER AND ENGINEER SHALL INSPECT THE MANHOLES. THE INSPECTION SHALL BE SCHEDULED A MINIMUM OF 48 HOURS PRIOR TO INSPECTION.
43. TESTING: TESTING OF GRAVITY SEWER MAINS AND LATERALS SHALL BE IN ACCORDANCE WITH THE UTILITY OWNER'S MINIMUM DESIGN AND CONSTRUCTION STANDARDS LATEST REVISION.
43.1. AFTER CONSTRUCTION OF THE SEWER SYSTEM, THE ENGINEER MAY REQUIRE A VISUAL INFILTRATION AND/OR EXFILTRATION TEST TO BE PERFORMED ON THE ENTIRE SYSTEM OR ANY PART THEREOF.
43.2. AN AIR TEST MAY BE SUBSTITUTED FOR THE WATER EXFILTRATION TEST, UPON APPROVAL OF THE ENGINEER.
43.3. THE ALLOWABLE LIMITS OF SEWER PIPE LEAKAGE FOR GRAVITY SEWER MAINS SHALL NOT EXCEED 100 GALLONS PER INCH OF INSIDE PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION TESTED. NO VISIBLE LEAKAGE SHALL BE ALLOWED.
43.4. THE INSTALLED SEWERS MAY REQUIRE VIDEO INSPECTIONS.

KEITH logo and contact info: 301 East Atlantic Blvd. Pompano Beach, FL 33060. PH: (954) 788-3400. Florida Certificate of Authorization: 7928. Licensed Business Number: 6860. REVISIONS table with columns NO., DESCRIPTION, DATE. FOR CONSTRUCTION RESPONSIBILITY FOR THE USE OF THESE PLANS PRIOR TO OBTAINING PERMITS FROM ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT WILL FALL SOLELY UPON THE USER. ISSUE DATE: 10/30/2023. DESIGNED BY: MC/BI/BA. DRAWN BY: BI/BA. CHECKED BY: TD/MC. BID-CONTRACT: [Seal: State of Florida Professional Engineer License No. 60529, signed by Thomas F. Donahue, P.E.]. THOMAS F. DONAHUE, P.E. FLORIDA REG. NO. 60529 (FOR THE FIRM). CLIENT: Habitat for Humanity. PROJECT: CORAL SPRINGS TOWNHOMES NORTH AND SOUTH. SHEET TITLE: CONSTRUCTION SPECIFICATIONS. SHEET NUMBER: GI-002. PROJECT NUMBER: 10431.03. STATUS: PERMITTING.



















# HABITAT FOR HUMANITY SOUTH RIVERSIDE DRIVE CORAL SPRINGS, FLORIDA 33065



RELATIONSHIP BETWEEN  
NGVD 1929 AND NAVD 1988

DATUM	DIFFERENCE	ELEV.
NGVD 1929	+1.55 FEET	1.55'
NAVD 1988		0.00'

ALL ELEVATIONS SHOWN ON THESE PLANS ARE  
BASED ON NAVD 1988 DATUM

#### LAND DESCRIPTION

LOTS 7, 8, AND 9, BLOCK "Y" CORAL SPRINGS SUBDIVISION NO. 1,  
ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 59  
PAGE 30, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

SAID LANDS LYING IN THE CITY OF CORAL SPRINGS, BROWARD  
COUNTY, FL AND CONTAINING 22,985 SQUARE FEET, MORE OR LESS.

#### PROJECT TEAM

PROPERTY OWNER  
HABITAT FOR HUMANITY OF BROWARD, INC.  
688 NW 62ND ST.  
FORT LAUDERDALE, FL 33309  
(954) 366-3030

APPLICANT, CIVIL ENGINEER & LANDSCAPING  
KEITH & ASSOCIATES, INC.  
301 E ATLANTIC BLVD.  
POMPANO BEACH, FL 33069  
(954) 788-3400

ARCHITECT  
FSMY ARCHITECTS + PLANNERS  
888 S ANDREWS AVE., SUITE 300  
FORT LAUDERDALE, FL 33316  
(954) 764-6575

THESE PLANS MAY HAVE BEEN  
REDUCED IN SIZE BY REPRODUCTION.  
THIS MUST BE CONSIDERED WHEN  
OBTAINING SCALED DATA.



LOCATION MAP  
SECTION 14, TOWNSHIP 48 S, RANGE 41 E  
FOLIO # 484114180010

INDEX OF SHEETS	
SHEET No.	SHEET TITLE
GI-000	COVER SHEET
GI-001	GENERAL NOTES
GI-002	CONSTRUCTION SPECIFICATIONS
GI-003	SPECIFIC CONSTRUCTION NOTES & LEGEND
CD-101	DEMOLITION PLAN
CD-101	PRELIMINARY EROSION CONTROL PLAN
CD-501	EROSION CONTROL DETAILS
CP-102	PRELIMINARY PAVING, GRADING, AND DRAINAGE PLAN
CP-302	PAVING, GRADING, AND DRAINAGE SECTIONS
CP-501 - CP-502	PAVING, GRADING, AND DRAINAGE DETAILS



PREPARED FOR:  
HABITAT FOR HUMANITY  
OF BROWARD

PROJECT NO. 10431.03 OCTOBER 2023

THOMAS F. DONAHUE, P.E.  
FLORIDA REG. NO. 60529  
(FOR THE FIRM)























**SUNSHINE  
WATER CONTROL DISTRICT**

**STAFF  
REPORTS  
E**

**SUNSHINE WATER CONTROL DISTRICT**

**BOARD OF SUPERVISORS FISCAL YEAR 2023/2024 MEETING SCHEDULE**

**LOCATION**

*Sartory Hall, 10150 NW 29 St., Coral Springs, Florida 33065*

<b>DATE</b>	<b>POTENTIAL DISCUSSION/FOCUS</b>	<b>TIME</b>
<b>October 11, 2023</b>	<b>Regular Meeting</b>	<b>6:30 PM</b>
<b>November 8, 2023</b>	<b>Regular Meeting</b>	<b>6:30 PM</b>
<b>December 6, 2023</b>	<b>Regular Meeting</b>	<b>6:30 PM</b>
<b>December 13, 2023</b> <i>Rescheduled to December 6, 2023</i>	<b>Regular Meeting</b>	<b>6:30 PM</b>
<b>January 10, 2024</b>	<b>Regular Meeting</b>	<b>6:30 PM</b>
<b>February 14, 2024</b> <i>Rescheduled to February 15, 2024</i>	<b>Regular Meeting</b>	<b>6:30 PM</b>
<b>February 15, 2024</b>	<b>Regular Meeting</b>	<b>6:30 PM</b>
<b>March 13, 2024</b>	<b>Landowners' Meeting &amp; Regular Meeting</b>	<b>6:30 PM</b>
<b>April 10, 2024</b>	<b>Regular Meeting</b>	<b>6:30 PM</b>
<b>May 8, 2024</b>	<b>Regular Meeting</b>	<b>6:30 PM</b>
<b>June 12, 2024</b>	<b>Regular Meeting</b>	<b>6:30 PM</b>
<b>July 10, 2024</b>	<b>Regular Meeting</b>	<b>6:30 PM</b>
<b>August 14, 2024</b>	<b>Regular Meeting</b>	<b>6:30 PM</b>
<b>September 11, 2024</b>	<b>Regular Meeting</b>	<b>6:30 PM</b>