



# New Irrigation at Ben Fiorendino Pembroke Lakes Park

## Invitation for Bids # RE-19-08

General Information		
Project Cost Estimate	\$100,000	See Section 1.4
Project Timeline	60 calendar days from NTP	See Section 1.4
Evaluation of Proposals	Staff	See Section 1.7
Non Mandatory Pre-Bid Meeting	9:00 a.m. on September 5, 2019 at Ben Fiorendino Pembroke Lakes Park located at 10211 Taft Street, Pembroke Pines, FL. 303026	See Section 1.8
Question Due Date	September 10, 2019	See Section 1.8
Proposals will be accepted until	2:00 p.m. on September 24, 2019	See Section 1.8
5% Proposal Security / Bid Bond	Not Applicable	See Section 4.1
100% Payment and Performance Bonds	Not Applicable	See Section 4.2

THE CITY OF PEMBROKE PINES  
PURCHASING DIVISION  
8300 SOUTH PALM DRIVE  
PEMBROKE PINES, FLORIDA 33025  
(954) 518-9020



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ATTACHMENTS

- Attachment A: Contact Information Form
- Attachment B: Non-Collusive Affidavit
- Attachment C: Proposer’s Qualifications Statement
- Attachment D: Sample Insurance Certificate
- Attachment E: Specimen Contract - **Construction Agreement**
- Attachment F: References Form
- Attachment G: Standard Release of Lien Form
- Attachment H: Schematic Irrigation Plans for Ben Fiorendino Park



## **SECTION 1 - INSTRUCTIONS**

### **1.1 NOTICE**

Notice is hereby given that the City Commission of the City of Pembroke Pines is seeking sealed proposals for:

**IFB # RE-19-08**  
**New Irrigation at Ben Fiorendino Pembroke Lakes Park**

Solicitations may be obtained from the City of Pembroke Pines website at <http://www.ppines.com/index.aspx?NID=667> and on the [www.BidSync.com](http://www.BidSync.com) website.

If you have any problems downloading the solicitation, please contact the BidSync Support line at 1-800-990-9339.

If additional information help is needed with downloading the solicitation package please contact the Purchasing Office at (954) 518-9020 or by email at [purchasing@ppines.com](mailto:purchasing@ppines.com). The Purchasing Office hours are between 7:00 a.m. - 6:00 p.m. on Monday through Thursday and is located at 8300 South Palm Drive, Pembroke Pines, Florida 33025.

The City requires all questions relating to the solicitation be entered through the “Ask a Question” option tab available on the BidSync website. Responses to the questions will be provided online at [www.bidsync.com](http://www.bidsync.com). Such request must be received by the “Question Due Date” stated in the solicitation. The issuance of a response via BidSync is considered an Addendum and shall be the only official method whereby such an interpretation or clarification will be made.

**Proposals will be accepted until 2:00 p.m., Tuesday, September 24, 2019.** Proposals must be **submitted electronically at [www.BidSync.com](http://www.BidSync.com)**. The sealed electronic proposals will be publicly opened at 2:30 p.m. by the City Clerk’s Office, in the City Hall Administration Building, 4<sup>th</sup> Floor Conference Room located at 601 City Center Way, Pembroke Pines, Florida, 33025.

### **1.2 PURPOSE**

The City of Pembroke Pines is seeking proposals from qualified firms, hereinafter referred to as the Contractor, to provide a new irrigation system at Ben Fiorendino Pembroke Lakes Park to ensure the growth and vitality of surrounding vegetation, in accordance with the terms, conditions, and specifications contained in this solicitation.



**1.3 SCOPE OF WORK**

See Attachment H: Schematic Irrigation Plans for Ben Fiorendino Park for details on scope of work.

**General Conditions:**

1. Contractor is responsible for all materials, labor, equipment and any other necessary items required to complete the project.
2. Contractor shall provide all warranties for work completed.
3. Contractor shall be able to communicate effectively with Project Manager/City Staff progress of onsite work. All communications will be conducted between Contractor and City Staff.
4. Contractor will be required to schedule all work with Project Manager/City Staff.
5. Contractor shall be responsible for all debris removal and restoration to any existing areas damaged by the contractor once the project is completed. Site shall be made safe and clean of debris at the end of each workday.
6. All precautions need to be taken for life safety and protection of people, vehicles and other structures on the site.
7. The work must be performed Monday-Thursday or as approved by the City Staff/Project Manager.
8. Assume full responsibility for the protection and safe keeping of products and equipment and move any stored products to a secured area.

**1.4 PROJECT COST ESTIMATE & TIMELINE**

Staff estimates this project to cost approximately \$100,000 which does not include permit costs.

Please note the City will include a Permit Allowance for this project, **therefore proposers should not include permit costs in their total proposal price.**

The work shall be completed within 60 days days from issuance of CITY’s Notice to Proceed, with an estimated start date of November 1, 2019.

**1.4.1 PERMITS**

The City anticipates this project to require the following permits:

Permit	Agency	Cost (or related method of calculation)
Engineering	City of Pembroke Pines Engineering Department	4.9136% of construction costs



## **1.4.2 PERMIT ALLOWANCE**

The City shall include a “Permit Allowance” for this project. The Contractor shall obtain all required permits to complete the work, however the City shall utilize the Permit Allowance to reimburse the contractor for the related permit, license, impact or inspection fees. Payments will be made to the contractor based on the actual cost of permits upon submission of paid permit receipts. The City shall not pay for other costs related to obtaining or securing permits.

The City shall determine the amount of the allowance at time of award. The allowance may be based on a specified percent of the proposed project amount and shall be established for the specific project being performed under the contract. This dollar amount shall be shown on the specific project purchase order as a distinct item from the vendor’s overall offer to determine the total potential dollar value of the contract. Any Permit Allowance funds that have not been utilized at the end of the project will remain with the City, if the City Permit fees exceed the allowance indicated, the City will reimburse the contractor the actual amount of City Permit Fees required for project completion.

## **1.5 PROPOSAL REQUIREMENTS**

**The following documents will need to be completed, scanned and submitted through [www.bidsync.com](http://www.bidsync.com) as part of the bidder’s submittal.** The proposer interested in responding to this solicitation must provide the information requested below. Submittals that do not respond completely to all requirements specified herein may be considered non-responsive and eliminated from the process.

### **1.5.1 Attachment A: Contact Information Form**

- a. Attached is contact information form (Attachment A) where the vendor will enter their contact information and complete the proposal checklist. The Contact information form shall be electronically signed by the contact person authorized to represent the contractor. This form must be completed and submitted through [www.bidsync.com](http://www.bidsync.com) as part of the bidder’s submittal.
- b. The vendor must provide their pricing through the designated lines items listed on the BidSync website.
- c. Please note vendors should be registered on BidSync under the name of the organization that they are operating as and it should match the organization name on the documents that they are submitting and utilizing when responding to the solicitation.



- d. The contact information form should contain an electronic signature of the authorized representative of the Proposer along with the address and telephone number for communications regarding the Proposal.
- e. Proposals by corporations should be executed in the corporate name by the President or other corporate officer accompanied by evidence of authority to sign. The corporate address and state of incorporation must also be shown.
- f. Proposals by partnerships should be executed in the partnership name and signed by a partner whose title and the official address of the partnership must be shown.

### **1.5.2 Attachment B: Non-Collusive Affidavit**

### **1.5.3 Attachment C: Proposer's Qualifications Statement**

### **1.5.4 Attachment F: References Form**

- a. Complete **Attachment F: References Form**. References should be from the last five years and should be capable of explaining and confirming your firm's capacity to successfully complete the scope of work outlined herein. As part of the proposal evaluation process, the City may conduct an investigation of references, including a record check or consumer affairs complaints. Proposers' submission of a proposal constitutes acknowledgment of the process and consent to investigate. The City is the sole judge in determining Proposers qualifications.

## **1.6 VENDOR REGISTRATION AND QUALIFICATION DOCUMENTS**

The City has implemented a new process that is intended to make the bidding process easier for vendors that bid on multiple City projects. This process will require vendors to complete and submit the following standard forms and documents at any time prior to bidding on a project. In addition, the vendors will be able to utilize these same forms without the need to re-fill and re-submit the forms each time they bid on a City project.

**Furthermore, please make sure to update this information on an as-needed basis so that all pertinent information is accurate, such as local business tax receipts, and any other relevant information.**

These forms will be found under the "Vendor Registration" group of "Qualifications" on the BidSync website for the City of Pembroke Pines. Please note that the BidSync website requires bidders to complete all of these qualifications prior to being able to submit questions on any bids, therefore, please make sure to complete this information as soon as possible.





The following documents can be completed prior to the bidding process through the BidSync website and do not need to be attached to your submittal as the BidSync website will automatically include it.

### **1.6.1 Vendor Information Form**

### **1.6.2 Form W-9 (Rev. October 2018)**

- a. Previously dated versions of this form will delay the processing of any payments to the selected vendor.

### **1.6.3 Sworn Statement on Public Entity Crimes Form**

### **1.6.4 Local Vendor Preference Certification**

- a. If claiming Local Pembroke Pines Vendor Preference, business must attach a current business tax receipt from the City of Pembroke Pines
- b. If claiming Local Broward County Vendor Preference, business must attach a current business tax receipt from Broward County or the city within Broward County where the business resides.
- c. The Local Vendor Preference Certification form must be completed by/for the proposer; the proposer **WILL NOT** qualify for Local Vendor Preference based on their sub-contractors' qualifications.

### **1.6.5 Local Business Tax Receipts**

### **1.6.6 Veteran Owned Small Business Preference Certification**

- a. If claiming Veteran Owned Small Business Preference Certification, business must attach the "Determination Letter" from the United States Department of Veteran Affairs Center for Verification and Evaluation notifying the business that they have been approved as a Veteran Owned Small Business (VOSB).
- b. The Veteran Owned Small Business Preference Certification form must be completed by/for the proposer; the proposer **WILL NOT** qualify for Veteran Owned Small Business Preference based on their sub-contractors' qualifications.



**1.6.7 Equal Benefits Certification Form**

**1.6.8 Vendor Drug-Free Workplace Certification Form**

**1.6.9 Scrutinized Company Certification**

**1.7 EVALUATION OF PROPOSALS & PROCESS OF SELECTION**

- A. Staff will evaluate all responsive proposals received from proposers who meet or exceed the bid requirements contained in the solicitation. Evaluations shall be based upon the information contained in the proposals as submitted.
- B. Staff will make a recommendation to the City Commission for award of contract.

**1.8 TENTATIVE SCHEDULE OF EVENTS**

<b>Event</b>	<b>Time &amp;/or Date</b>
Issuance of Solicitation (Posting Date)	<b>August 27, 2019</b>
Non-Mandatory Pre-Bid Meeting	<b>9:00 a.m. on September 5, 2019</b>
Question Due Date	<b>September 10, 2019</b>
Anticipated Date of Issuance for the Addenda with Questions and Answers	<b>September 12, 2019</b>
Proposals will be accepted until	<b>2:00 p.m. on September 24, 2019</b>
Proposals will be opened at	<b>2:30 p.m. on September 24, 2019</b>
Evaluation of Proposals by Staff	<b>September 24, 2019 – October 3, 2019</b>
Recommendation of Contractor to City Commission award	<b>October 16, 2019</b>
Issuance of Notice to Proceed	<b>November 1, 2019</b>
Project Commencement	<b>Not later than 10 days after NTP</b>
Project Completion	<b>60 days after NTP</b>

**1.8.1 NON-MANDATORY PRE-BID MEETING / SITE VISIT**

There will be a non-mandatory scheduled pre-bid meeting on **September 5, 2019 at 9:00 a.m.** Meeting location will be at Ben Fiorendino Pembroke Lakes Park located at 10211 Taft Street, Pembroke Pines, FL 33026.

**1.9 SUBMISSION REQUIREMENTS**

Bids/proposals **must be submitted electronically** at [www.bidsync.com](http://www.bidsync.com) on or before **2:00 p.m. on September 24, 2019**



Please note vendors should be registered on BidSync under the name of the organization that they are operating as and it should match the organization name on the documents that they are submitting and utilizing when responding to the solicitation.

The vendor must provide their pricing through the designated lines items listed on the BidSync website. In addition, the vendor must complete any webforms on the BidSync website and provide any additional information requested throughout this solicitation. Any additional information requested in the solicitation should be scanned and uploaded. **Unless otherwise specified, the City requests for vendors to upload their documents as one (1) PDF document in the order that is outline in the bid package.**

The City recommends for proposers to submit their proposals as soon as they are ready to do so. Please allow ample time to submit your proposals on the BidSync website. Proposals may be modified or withdrawn prior to the deadline for submitting Proposals. BidSync Support is happy to help you with submitting your proposal and to ensure that you are submitting your proposals correctly, but we ask that you contact their support line at 1-800-990-9339 with ample time before the bid closing date and time.

**PLEASE DO NOT SUBMIT ANY PROPOSALS VIA MAIL, E-MAIL OR FAX.**



**CONTACT INFORMATION FORM**

IN ACCORDANCE WITH “RE-19-08” titled “New Irrigation at Ben Fiorendino Pembroke Lakes Park” attached hereto as a part hereof, the undersigned submits the following:

**A) Contact Information**

The Contact information form shall be electronically signed by one duly authorized to do so, and in case signed by a deputy or subordinate, the principal's properly written authority to such deputy or subordinate must accompany the proposal. This form must be completed and submitted through [www.bidsync.com](http://www.bidsync.com) as part of the bidder’s submittal. The vendor must provide their pricing through the designated lines items listed on the BidSync website.

**COMPANY INFORMATION:**

COMPANY: \_\_\_\_\_

STREET ADDRESS: \_\_\_\_\_

CITY, STATE & ZIP CODE: \_\_\_\_\_

**PRIMARY CONTACT FOR THE PROJECT:**

NAME: \_\_\_\_\_ TITLE: \_\_\_\_\_

E-MAIL: \_\_\_\_\_

TELEPHONE: \_\_\_\_\_ FAX: \_\_\_\_\_

**AUTHORIZED APPROVER:**

NAME: \_\_\_\_\_ TITLE: \_\_\_\_\_

E-MAIL: \_\_\_\_\_

TELEPHONE: \_\_\_\_\_ FAX: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

**B) Proposal Checklist**

Did you make sure to submit the following items, as stated in section 1.5 “Proposal Requirements” of the bid package?

Attachment A - Contact Information Form	Yes_____
Attachment B - Non-Collusive Affidavit	Yes_____



Attachment C - Proposer's Completed Qualification Statement	Yes_____
Attachment F - References Form	Yes_____

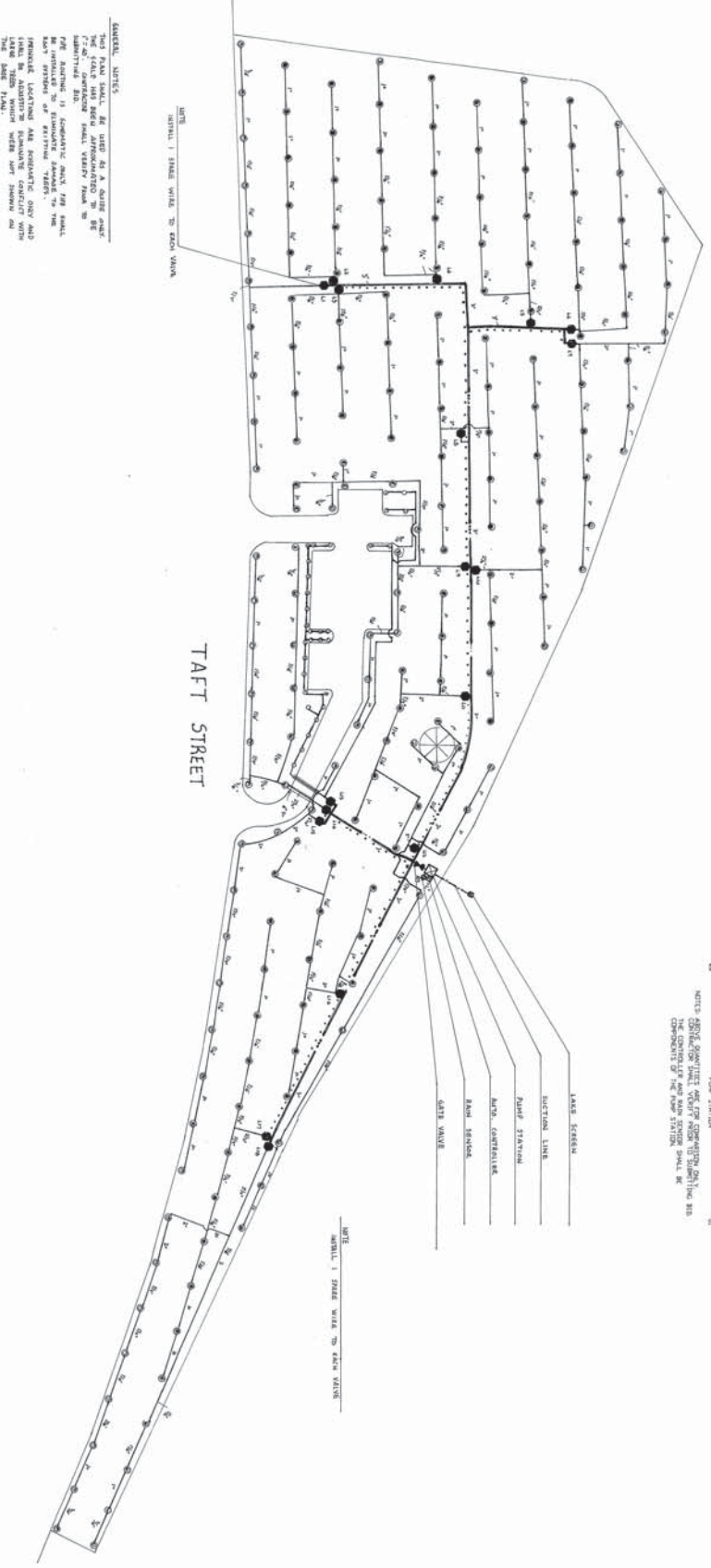
Did you make sure to update the following documents found under the "Vendor Registration" group of "Qualifications" on the BidSync website for the City of Pembroke Pines?

Vendor Information Form	Yes_____
Form W-9 (Rev. October 2018)	Yes_____
Sworn Statement on Public Entity Crimes Form	Yes_____
Local Vendor Preference Certification	Yes_____
Local Business Tax Receipts	Yes_____
Veteran Owned Small Business Preference Certification	Yes_____
Equal Benefits Certification Form	Yes_____
Vendor Drug-Free Workplace Certification Form	Yes_____
Scrutinized Company Certification	Yes_____

**C) Sample Proposal Form**

*The following sample price proposal is for information only. The vendor must provide their pricing through the designated lines items listed on the BidSync website.*

<b>Item #</b>	<b>Item Description</b>	<b>Total Cost</b>
<b>1)</b>	Total cost for the New Irrigation at Ben Fiorendino Pembroke Lakes Park Project, per the scope of work provided for in the IFB.	<b>Price to be Submitted Via BidSync</b>



**GENERAL NOTES:**

- THIS PLAN SHALL BE USED AS A GUIDE ONLY.
- ALL WORK SHALL BE DONE ACCORDING TO THE STANDARD SPECIFICATIONS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION, WHICH MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES BEFORE ANY CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND UTILITIES AT ALL TIMES.
- ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE DISTRICT ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES.
- ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND UTILITIES AT ALL TIMES.
- ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE DISTRICT ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES.
- ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.

**LEGEND**

**SYMBOLS:**

—	1.5" PVC
—	2.0" PVC
—	3.0" PVC
—	4.0" PVC
—	6.0" PVC
—	8.0" PVC
—	12.0" PVC
—	18.0" PVC
—	24.0" PVC
—	30.0" PVC
—	36.0" PVC
—	42.0" PVC
—	48.0" PVC
—	54.0" PVC
—	60.0" PVC
—	66.0" PVC
—	72.0" PVC
—	78.0" PVC
—	84.0" PVC
—	90.0" PVC
—	96.0" PVC
—	102.0" PVC
—	108.0" PVC
—	114.0" PVC
—	120.0" PVC
—	126.0" PVC
—	132.0" PVC
—	138.0" PVC
—	144.0" PVC
—	150.0" PVC
—	156.0" PVC
—	162.0" PVC
—	168.0" PVC
—	174.0" PVC
—	180.0" PVC

**ZONE SUMMARY CHART**

ZONE	VALVE	NUMBER	MINIMUM WATER DEPTH	MIN. TIME	WORKS DONE
1	1A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
2	2A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
3	3A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
4	4A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
5	5A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
6	6A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
7	7A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
8	8A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
9	9A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
10	10A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
11	11A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
12	12A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
13	13A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
14	14A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
15	15A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
16	16A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
17	17A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
18	18A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
19	19A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
20	20A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
21	21A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
22	22A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
23	23A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
24	24A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
25	25A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
26	26A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
27	27A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
28	28A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
29	29A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK
30	30A	10	1.5"	40 MIN	120 MAN/HR 2,250 GAL/WK

**PROJECT TITLE:** BEN FIORINDINO PARK  
PEMBROKE PINES, FLORIDA

**IRRIGATION PLAN**

**SEAL**

Kenneth DiDonato  
P.E. Lic. #20892

**PROJECT NO. 2015-12**  
**DRAWN BY: RAO**  
**CHECKED BY: RAO**  
**SCALE: 1"=40'-0"**  
**DATE: MARCH 2018**  
**DWG. NO. IR-1**  
**SHT. NO. 1 of 1**  
**REVISIONS:**

**Kenneth DiDonato, P.E.**  
CONSULTING ENGINEER

**KD**

5212 HOLLYHAW BLVD., HOLLYWOOD, FLORIDA 33020  
(954) 923-2555

**ZONE SUMMARY CHART**

NUMBER SPRINKLER TYPE VALVE SIZE	WATER DEMAND**	FLOW TIME	WEEKLY USAGE
L1 K-ETORION 1.1/2"	57 GPM	60 MIN	3,420 GAL/WK
L2 K-ETORION 1.1/2"	60 GPM	120 MIN	7,200 GAL/WK
L3 K-ETORION 1.1/2"	66 GPM	120 MIN	7,920 GAL/WK
L4 K-ETORION 1.1/2"	60 GPM	120 MIN	7,200 GAL/WK
L5 K-ETORION 1.1/2"	66 GPM	120 MIN	7,920 GAL/WK
L6 K-ETORION 1.1/2"	71 GPM	120 MIN	8,520 GAL/WK
L7 K-ETORION 1.1/2"	71 GPM	120 MIN	8,520 GAL/WK
L8 K-ETORION 1.1/2"	70 GPM	120 MIN	8,400 GAL/WK
L9 K-ETORION 1.1/2"	70 GPM	120 MIN	8,400 GAL/WK
L10 K-ETORION 1.1/2"	66 GPM	120 MIN	7,920 GAL/WK
L11 K-ETORION 1.1/2"	60 GPM	120 MIN	7,200 GAL/WK
L12 K-ETORION 1.1/2"	72 GPM	120 MIN	8,640 GAL/WK
L13 K-ETORION 1.1/2"	47 GPM	60 MIN	2,820 GAL/WK
L14 K-ETORION 1.1/2"	53 GPM	60 MIN	3,180 GAL/WK
L15 K-ETORION 1.1/2"	66 GPM	60 MIN	3,960 GAL/WK
L16 K-ETORION 1.1/2"	66 GPM	60 MIN	3,960 GAL/WK
L17 K-ETORION 1.1/2"	66 GPM	60 MIN	3,960 GAL/WK
L18 K-ETORION 1.1/2"	66 GPM	60 MIN	3,960 GAL/WK
L19 K-ETORION 1.1/2"	66 GPM	60 MIN	3,960 GAL/WK

**IRRIGATION, INTAKE & SPECIALIZATIONS**

IRRIGATION SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES, PERMITS, AND SPECIFICATIONS. ALL IRRIGATION SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF PEMBROKE PINES SITE PLAN PROVIDED BY THE CITY.

THE IRRIGATION SHALL BE INSTALLED AS A TYPICAL RIGID VALVE TYPE SYSTEM. THE IRRIGATION SHALL BE INSTALLED TO CONSERVE WATER. OVERHEAD OR Drip IRRIGATION SHALL BE INSTALLED TO CONSERVE WATER. OVERHEAD OR Drip IRRIGATION SHALL BE INSTALLED TO CONSERVE WATER. OVERHEAD OR Drip IRRIGATION SHALL BE INSTALLED TO CONSERVE WATER.

**PIPE**

PIPE SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND PIPE MANUFACTURER'S INSTRUCTIONS.

PIPE JOINTS SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND PIPE MANUFACTURER'S INSTRUCTIONS.

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**SPRINKLER**

SPRINKLER SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND SPRINKLER MANUFACTURER'S INSTRUCTIONS.

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**VALVE**

VALVE SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND VALVE MANUFACTURER'S INSTRUCTIONS.

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VALVE SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND VALVE MANUFACTURER'S INSTRUCTIONS.

**PIPE STATION**

LOCATION OF PIPE STATION SHALL BE VERIFIED ON SITE.

PIPE STATION SHALL BE A PRE-FABRICATED TYPE, WITH A CAPACITY OF 75 GPM @ 120 PSI. PIPE SHALL BE INSTALLED TO CONSERVE WATER.

PIPE STATION SHALL BE A PRE-FABRICATED TYPE, WITH A CAPACITY OF 75 GPM @ 120 PSI. PIPE SHALL BE INSTALLED TO CONSERVE WATER.

PIPE STATION SHALL BE A PRE-FABRICATED TYPE, WITH A CAPACITY OF 75 GPM @ 120 PSI. PIPE SHALL BE INSTALLED TO CONSERVE WATER.

**CONTROL SYSTEM**

CONTROL SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND CONTROL SYSTEM MANUFACTURER'S INSTRUCTIONS.

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**RAIN SENSOR**

RAIN SENSOR SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND RAIN SENSOR MANUFACTURER'S INSTRUCTIONS.

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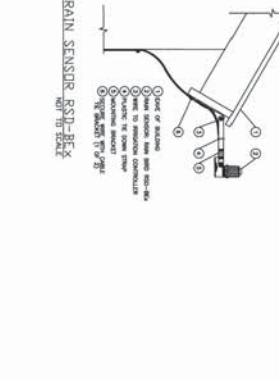
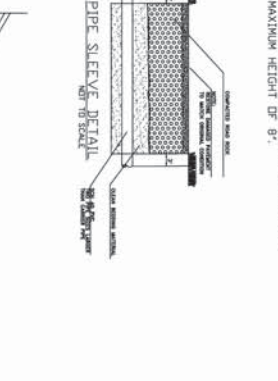
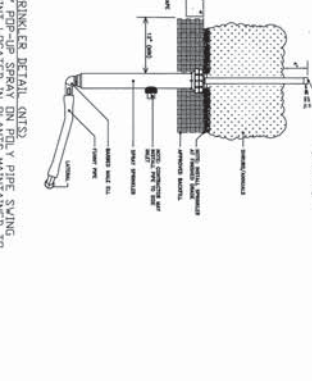
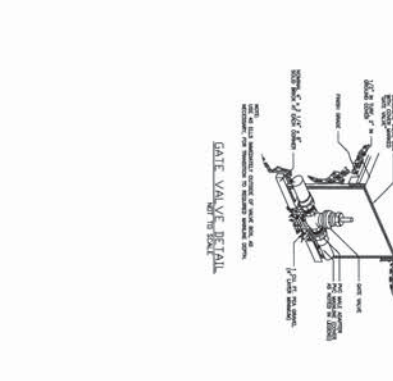
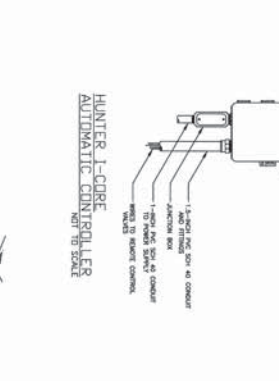
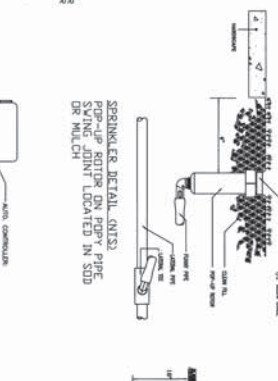
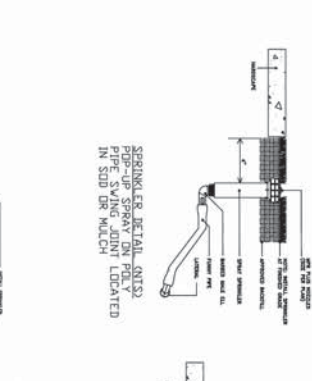
**SPRINKLER DETAIL (NTS)**

SPRINKLER DETAIL (NTS) SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND SPRINKLER MANUFACTURER'S INSTRUCTIONS.

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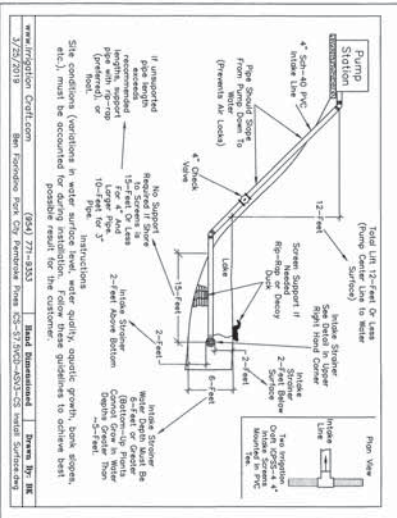
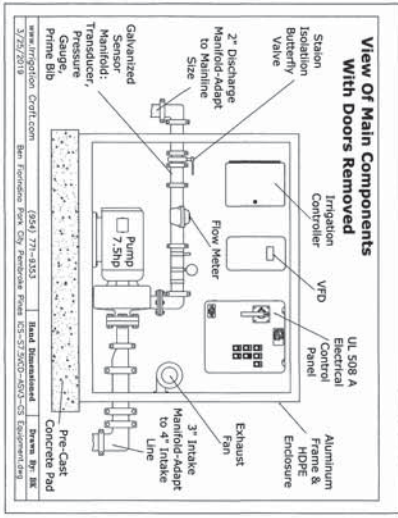
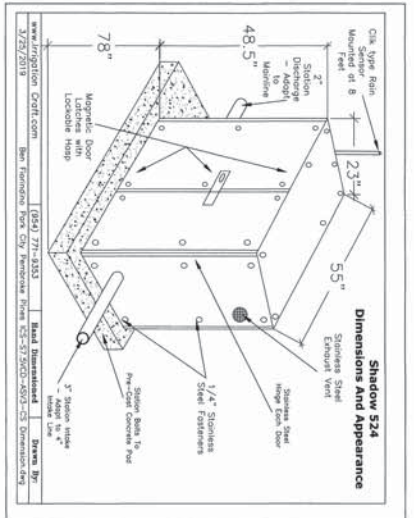


**Kenneth DiDonato, P.E.**  
CONSULTING ENGINEER  
GOLF COURSE & COMMERCIAL IRRIGATION DESIGN  
12120 BIRCHWOOD BLVD., HOLLYWOOD, FLORIDA 33020  
(954) 923-2555

PROJECT TITLE : BEN FIORINDINO PARK  
PEMBROKE PINES, FLORIDA  
IRRIGATION LEGEND, NOTES,  
AND INSTALLATION DETAILS

SEAL  
Kenneth DiDonato  
P.E. Lic. #20892

PROJECT NO. 2019-22  
DESIGNED BY: KXD  
SCALE: N.T.S.  
DATE: MARCH 2019  
DWG. NO.: IR-2  
REVISED: \_\_\_\_\_



**Irrigation Pump Station Specification  
Ben Fiorindino Park  
City of Pembroke Pines - Pembroke Pines, Florida  
March 25, 2019**

**I. Manufacturer and Model**

The pump control station for this project will be manufactured by Irrigation CRT at 7000 SW 10th Street, Pompano Beach, FL 33069. The pump control station shall be listed under two Underwriters Laboratories sections as follows: 5891 - Enclosed Industrial Control Panel - File Number E109950.

**II. General Description**

The pump station shall be a U.L. listed steel mounted pumping system with electrical control, pipe manifold, valves, and all accessories described herein. The pump station shall be assembled in a workman-like manner with consideration given to convenience of use, maintenance, and future repair. All finished surfaces shall be resistant and shall not be harmed by spraying water. All components mountings shall be sturdy and solid with enough clearance to safety access, operate, and repair the pump station. The station shall be manufacturer, listed, and delivered to the site.

**III. Components**

**A. Electrical Enclosure & Mounting**

1. **ELECTRICAL ENCLOSURE & MOUNTING:** The control panel enclosure shall be NEMA 3R, Type 4X, with stainless steel hardware. All panel penetrations shall be weather-tight. The enclosure shall be mounted on an aluminum mounting base.
2. **ELECTRICAL REQUIREMENTS:** The control panel shall be designed to operate on 3 phase power with a 200 AMP 480V AC. The control panel shall be designed to be compatible with a 7.5 horsepower (5500 BTU) motor. The control panel shall be designed to be compatible with a 7.5 horsepower (5500 BTU) motor.
3. **WARRANTY:** The station manufacturer shall include a two (2) year limited warranty on all parts and labor. The station manufacturer shall include a two (2) year limited warranty on all parts and labor.
4. **DISCONNECT:** The control panel shall include a door interlock disconnect preventing the control panel from being accessed when the door is open. This disconnect shall include a manual reset disconnect.
5. **FUSELESS:** An arc fault protection in the pump station control panel shall be required.

**B. Equipment Size, Enclosure & Ventilation**

The pump station shall be a welded aluminum steel enclosure with a minimum of 24 inches of clearance around the enclosure. The station shall be equipped with a 1/2" minimum clearance around the enclosure. The station shall be equipped with a 1/2" minimum clearance around the enclosure. The station shall be equipped with a 1/2" minimum clearance around the enclosure. The station shall be equipped with a 1/2" minimum clearance around the enclosure.

**C. Station Panel**

The station panel shall be constructed of galvanized steel to below grade, with not less than 24 inches of clearance around the enclosure. The station panel shall be constructed of galvanized steel to below grade, with not less than 24 inches of clearance around the enclosure. The station panel shall be constructed of galvanized steel to below grade, with not less than 24 inches of clearance around the enclosure.

**D. Station Hardware**

The station hardware shall include a 1/2" minimum clearance around the enclosure. The station hardware shall include a 1/2" minimum clearance around the enclosure. The station hardware shall include a 1/2" minimum clearance around the enclosure. The station hardware shall include a 1/2" minimum clearance around the enclosure.

**E. Station Mounting**

The station mounting shall be constructed of galvanized steel to below grade, with not less than 24 inches of clearance around the enclosure. The station mounting shall be constructed of galvanized steel to below grade, with not less than 24 inches of clearance around the enclosure. The station mounting shall be constructed of galvanized steel to below grade, with not less than 24 inches of clearance around the enclosure.

**F. Station Mounting**

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**G. Station Mounting**

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**6. CLOCK SIGNAL**

The clock signal shall be provided to the pump station for accurate metering and control. The clock signal shall be provided to the pump station for accurate metering and control. The clock signal shall be provided to the pump station for accurate metering and control.

**7. VARIABLE FREQUENCY DRIVE**

The variable frequency drive shall be provided to the pump station for accurate metering and control. The variable frequency drive shall be provided to the pump station for accurate metering and control. The variable frequency drive shall be provided to the pump station for accurate metering and control.

**8. PUMP SAFETY**

The pump safety shall be provided to the pump station for accurate metering and control. The pump safety shall be provided to the pump station for accurate metering and control. The pump safety shall be provided to the pump station for accurate metering and control.

**Kenneth DiDonato, P.E.**  
CONSULTING ENGINEER  
P.E. # 35150 - FL  
2210 HOLLYWOOD BLVD., HOLLYWOOD, FLORIDA 33020  
(954) 923-2555

PROJECT TITLE: **BEN FIORINDINO PARK  
PEMBROKE PINES, FLORIDA**

**IRRIGATION PUMP STATION**

PROJECT NO. 2019-22  
DRAWN BY: KMD  
CHECKED BY: N.T.S.  
SCALE: 1/8" = 1'-0"  
DATE: MARCH 2019  
DWC NO. IR-3  
SHEET NO. 1 OF 1  
Ken DiDonato  
P.E. Lic. #20892