

- IRRIGATION LEGEND:**
- Ⓢ Rainbird 100-PCA, 1" electric valve or equivalent.
  - Ⓢ Rainbird ESP4-ME series automatic outdoor controller will be exterior wall mount or equivalent w/ rainbird soil moisture sensor. **Locate on site.**
  - Sleeves, SCH 40.
  - Ⓢ Rainbird 1800-SAM-P45 pop-up, w/ appropriate R-13-18 rotary series nozzle, 12.24" radius, low trajectory or equivalent.
  - Ⓢ Rainbird S 700 series rotors, 25-40" radius, Xert-pop 4-6" pop-up or SCH 80 riser as required.
  - Ⓢ Rainbird Xert Bubblers, install 1-4 per size of palm or palm if required, verify after trees and palms have been installed. Bubblers are not indicated on plan as required and approved by City of Delray Beach.

- GENERAL NOTES:**
- All landscaped areas shall be provided with an automatic water supply system as approved through a land development permit. Proposed irrigation system is 70% wet drip irrigation system thus justifying use of city water as water source.
- Irrigation contractor to provide seasonal operating schedule and average precipitation rates for each zone by system controller:
- Nozzle precipitation rates for all heads within each valve circuit must be matched to within 20% of one another:
- A regular irrigation maintenance schedule shall include but not be limited to checking, adjusting, and repairing irrigation equipment, and resetting the automatic controller according to the season.
- Irrigation system plans and specifications shall under go final testing and adjustments to achieve design specifications prior to completion of the system and acceptance by the owner's representative and the City. An as built plan shall be submitted if different than irrigation plan:

- IRRIGATION NOTES:**
- NOTES**
- Automatic Irrigation System
- Water Demand Zone 50" water meter, 18-22 GPM @ 45-50 psi w/ RPZ backflow preventor/ vacuum breaker, and rain moisture sensing device
- GENERAL**
- System shall be installed in accordance with local codes. Contract drawings and Contract specifications.
- Irrigation design based on Majestic Views, dated 08-28-18. Contractor shall refer to the landscape plan to coordinate sprinkler location and pipe routing with new and existing landscaping.
- The purpose of this irrigation plan is to show sprinkler locations for new landscaping. The Contractor considering the size of the source, the location and size of piping, and the size of existing valves shall zone system in the field.
- Contractor shall adjust sprinkler locations to insure proper coverage in common areas between new and existing landscaping.
- Irrigation contractor to provide 100 % coverage with a 50% overlap and as built drawings.
- Irrigation plan is for bid, permit purposes, and shall not be utilized as a construction document.
- Irrigation contractor will provide shop drawings and product specifications (cut sheets) and installation documents, to the landscape architect for review, comment and approval.
- A licensed contractor who installs or performs work on an automatic landscape irrigation system must install system per manufacturer's specifications and test for the correct operation of each inhibiting or interrupting device or switch on the system. If such devices are not installed, or are not installed properly, the contractor must install new devices or repair the existing ones and provide that each is operating properly before completing other work on the system.
- All contractors performing work on irrigation systems within the town shall be licensed or registered under F.S. ch. 489 and shall hold a municipally-issued license or business tax certificate that permits work on irrigation systems.

- PIPING**
- Pipe shall be installed in accordance with local codes and pipe manufacturer's recommendations.
- Pipe routed under pavement and patio shall be sleeved in SCH 40 PVC. Contractor shall utilize existing sleeves.
- Main line shall be scheduled 40 PVC.
- All pipes shall be Type 1120 PVC, Lateral sized 1" and larger shall be SDR 26, Class 160. Laterals sized 3/4" shall be SDR 21, Class 200.
- Pipe shall be installed so backfill depths are maintained at 18" for the main line and all lateral routed under pavement, and at 12" for all other materials.
- Backfill shall be of suitable material free of rocks, stones, or other debris that would damage irrigation systems components.

- SPRINKLER EES**
- Sprinkler locations shall be adjusted for wind, landscaping and mounding to insure proper coverage with minimal undesirable overthrow. In order to prevent overthrow, low trajectory heads or low volume water distributing devices shall be used when irrigating confined areas. No more than ten percent of spray radius shall be allowed onto impervious areas.
- Sprinkler heads irrigating lawns or other high water requirement landscape areas shall be circled so that they are on a separate sector from those irrigating trees, shrubbery or other reduced water requirement areas.

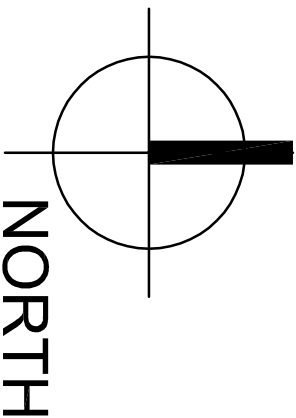
- Pop-up rotors Rainbird ST00-PFR series w/ adjustable nozzles or equivalent, 25-40" radius.
- Pop-up mistheads Rainbird 1800-SAM-P45 series, w/ R-13-18 rotary nozzles or equivalent, 12-24" radius. Sprink type mistheads shall be installed a uniform height of 6" above plant material and shall be located to be concealed from view and inaccessible from traffic.
- Rainbird Xert RPN series nozzle, 2.5 & 4, 1/2 or full spray on Xert-pop 4-6" pop-up or SCH 80 riser as required.
- Rainbird Xert Bubblers shall be installed on SCH 80 risers to the base height for the most effective irrigation of the plants to be watered. Bubblers are required for trees and palms.
- All SCH 80 PVC risers shall be painted green to blend in with plant material.

- All sprinklers located adjacent to pavement, walkways, patios, etc., shall be isolated from the edge to minimize the chance of damage to vehicles, pedestrians and lawn maintenance personnel. Pop-up heads shall be installed in 6" and stand type heads shall be installed in 15".
- Adjustment features of sprinklers specified shall be utilized to insure proper coverage while minimizing overthrow.

- VALVES**
- Rainbird 100-PCA 1" angle electric valve w/ pressure regulator or equivalent, with timer and rain sensor device.
- WATER SOURCE**
- 50" water meter, 18-22 GPM @ 45-50 psi w/ backflow preventor/ vacuum breaker, and ET manager figround moisture sensing device and pressure regulator as required and approved by City of West Palm Beach. All connectors and installation of backflow shall be made by a licensed plumber.
- CONTROL SYSTEM**
- Rainbird ESP4-ME series automatic outdoor controller will be exterior wall mount or equivalent w/ Rainbird soil moisture sensing device and pressure regulator as required and approved by City of West Palm Beach. The system shall provide a minimum coverage of 100% with 50% overlap.

FLOW	PIPE DIAMETER (INCH)
0-2	1/2"
3-9	3/4"
10-16	1"
17-26	1 1/4"
27-40	1 1/2"
40-60	2"

Automatic underground irrigation with Rainbird ET Manager in ground soil moisture sensor shall be designed and installed in accordance with the City of West Palm Beach Code and City code requirements. The system shall provide a minimum coverage of 100% with 50% overlap.



NORTH

HOGAN'S STREET

## 1 IRRIGATION PLAN

SCALE: 1/4" = 1'-0"

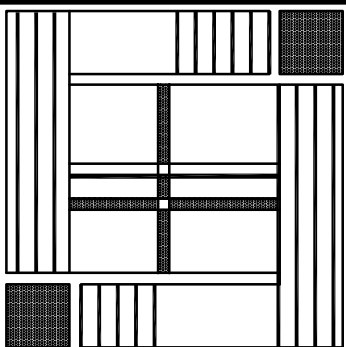
LOUIS ILIAS VLAHOS  
LANDSCAPE ARCHITECT  
CONSULTANT

LA #666677  
LC #26000319

## MAJESTIC VIEWS

Landscape Architecture - Construction Management  
4711 Cypress Drive South, Boynton Beach, FL 33436  
Phone:(561)752-9835 Fax: (561) 752-4110

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DAVID LAWRENCE  
ARCHITECTURE INC.

205 MORRIS AVE.  
SUITE 301 C  
PALM BEACH, FL 33480  
PH. 561.588.5070  
FX. 561.588.5074  
LIC. NO. AR 061650

CERT. OF AUTH. NO. JA-26001324  
www.davidlawrencearchitect.com

TO THE BEST OF THE  
KNOWLEDGE OF ENGINEERS  
AND ARCHITECTS, THE  
SPECIFICATIONS COMPLY WITH  
THE FAS CODE MANUAL  
AND THE FAS CODE MANUAL  
APPLICABLE FIRE-SAFETY  
SYSTEMS AS DETERMINED  
BY THE ENGINEER AND ARCHITECT  
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SECTION AND CHAPTER 633,  
F.S.

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REV. NO.	DATE	DESCRIPTION
JOB NO:	1605	
DRAWN BY:	LIV	
DATE:	08.28.18	
SCALE:	1/4"=1'-0"	
FILE:		

SHEET NO.

IP-1

MERRY PLACE ESTATES  
SINGLE FAMILY HOMES  
WEST PALM BEACH, FL  
IRRIGATION PLAN-TYPE 2 ALT.  
425 HOGAN'S STREET.