IRRIGATION GENERAL NOTES and SPECIFICATIONS
The system has been designed to conform with the requirements of all applicable codes. Should any conflict exist, the requirements of the codes shall prevail. It is the responsibility of the owner/installation contractor to insure the entire system is installed according to all applicable laws, rules, regulations and conventions. Irrigation contractor responsible for obtaining all required permits according to federal, state and local laws.

The scope of work is shown on the plans, notes and details. The Irrigation Contractor shall be certified as a CERTIFIED IRRIGATION CONTRACTOR by the Irrigation Association. The certification shall be current and in good standing.

THE WORK
The work specified in this section consists of furnishing all components necessary for the installation, testing, and delivery of a complete, fully functional automatic landscape irrigation system that completely complies with the irrigation plans, specifications, notes, details and all applicable laws, regulations, codes and ordinances. This work shall include, but not be limited to, the providing of all required material (pipe, valves, fittings, controllers, wire, primer, glue, etc.), layout, protection to the public, excavation, assembly, installation, back filling, compacting, repair of road surfaces, controller and low voltage feeds to valves, cleanup, maintenance, guarantee and as-built plans.

All irrigated areas shall provide 100% head-to-head coverage from a fully automatic irrigation system with a rain sensor. The rain sensor shall be installed to prevent activation of rain sensor by adjacent heads. All watering procedures shall conform to local codes, as well as this project's regional Water Management District restrictions and regulations. Zones are prioritized first by public safety and then by hydraulic concerns. This sequencing will be a mandatory punch list item. These plans have been designed to satisfy/exceed the Florida Building Code (FBC) Appendix F and the Florida Irrigation Society Standards and Specifications for Turf and Landscape Irrigation Systems, fourth edition.

Contractor shall verify all underground utilities 72 hours prior to commencement of work.

It is the responsibility of the irrigation contractor to familiarize themselves with all grade differences, location of walls, retaining walls, structures and utilities. Do not willfully install the sprinkler system as shown on the drawings when it is obvious in the field that unknown obstruction, grade differences or differences in the area dimensions exist that might not have been considered in the engineering. Such obstructions, or differences, should be brought to the attention of the owner' authorized representative. In the event this notification is not performed, the irrigation contractor shall assume full responsibility for any revisions necessary.

Irrigation Contractor shall repair or replace all items damaged by their work. Irrigation Contractor shall coordinate their work with other Contractors for the location and installation of pipe sleeves and laterals under roadways and paving, etc.

The contractor shall take immediate steps to repair, replace, or restore all services to any utilities which are disrupted due to their operations. All costs involved in disruption of service and repairs due to negligence on the part of the contractor shall be their responsibility.

POINT OF CONNECTION (P.O.C.)
The P.O.C.'s are new Hoover Pumping Stations (Pump A Model HCF-10PD-230/3-A,E-16,M,W and Pump B Model HCF-10PD-230/3-A,E-12,M,W) utalizing proposed wells. Each P.O.C. must be capable of delivering a minimum of 80 GPM at 178 TDH. Contractor shall verify these minimum conditions can be met prior to the begin irrigation system installation.

If the conditions can not be met, the contractor must notify the designer prior to proceeding with the work. If the Contractor does not do so, the contractor proceeds at their own risk and becomes responsible for any future work required to make the system perform as required.

THE PIPE
Pipe locations shown on the plan are schematic and shall be adjusted in the field. When laying out mainlines place a 18"-24" away from either the back of curb, front of walk, back of walk, or other hardscape to allow for ease in locating and protection from physical damage. Install all lateral pipe near edges of pavement or against buildings whenever possible to allow space for plant root balls. Always install piping inside project properties boundary.

Pipe sizes shall conform to those shown on the plans. No substitutions of smaller pipe sizes shall be permitted, but substitutions of larger sizes may be approved. All damaged / rejected pipe shall be removed from the site at the time of said rejection.

All pipes are to always be placed in planting beds. If it is necessary to have piping under hardscapes, such as roads, pavers, and walks, the pipes must be sleeved using High Density Polyethelene (HDPE) under existing roadways and sidewalks where directional bore is utilized and Sch 40 PVC elsewhere with the sleeve diameter being twice the size of the pipe it is carrying with a minimum sleeve size of 2".

Mainline shall be Class 200 gasketed 'O' ring PVC with Harco ductile iron fittings (sized per plans).

Contractor to ensure all mainline piping is properly restrained using mechanical joint fittings, restraining collars, threaded rods, thrust blocks, etc., as and where required. Contractor shall refer to pipe manufacturers recommended installation practices for further direction.

PVC pipe joint compound and primer: slow-drying, heavy duty cement and tinted (purple) primer that is compatible with the cement. The PVC cement shall be Weld-On 2711 grey and the primer shall be Weld-On P70 purple primer, or approved equals.

ELECTRICAL POWER SUPPLY
Electrical supply and phone line for pumps and controllers to be provided by irrigation contractor. Contractor to coordinate with local utilities for the installation of, and connection to, site available power supply's for required electrical components as set forth in the irrigation plans.

All electrical to comply with the National Electrical Code and any, and all, other applicable electrical codes, laws and regulations. A licensed electrician shall perform all electrical hook-ups. Power for the controllers shall be 120 volts. Power for Pumps A & B shall be 208 volts Phase 3.

WIRING
Irrigation control wire shall be thermoplastic solid copper, single conductor, low voltage irrigation controller wire; suitable for direct burial and continuous operation at rated voltages.

Tape and bundle control wires every 10' and run alongside the mainline. At all turns in direction make a 2' coil of wire. At all valve boxes coil wire around a 3/4" piece of PVC pipe to make a coil using 30 linear inches of wire. Make electrical connections with 3M-DBY,DBR connectors.

Number all wires, using an electrical book of numbers, according to the plans. Number wires in all valve boxes, junction boxes and at the controller.

Wire sized, numbered and colored as follows:
- #12 white for common
- #12 spare black common
- #14 red for hot wires
- #14 spare yellow hot wire

SPARE WIRES
Run spare wires into every RCV valve box. Install a minimum of 2 common and 4 hot wires, in all directions, to every RCV connected to its respective controller.

CONTROLLER GROUNDING
Contractor to utilize 4"X8'X5/8" copper grounding plates, 5/8"X10' copper clad grounding rods, 'One Strike' CAD wells at all connection points, #6 bare copper wire, and earth contact material. Install these and other required components as outlined in the detail. Contractor to verify that the earth to ground resistance does not exceed 10 ohms. Contractor shall provide a written certification, on a licensed electrical contractors letter head, showing the date of the test, controller location, and test results. Each controller shall be so grounded and tested.

LAYOUT
Lay out irrigation system mainlines and lateral lines. Make the necessary adjustments as required to take into account all site obstructions and limitations prior to excavating trenches.

Stake all sprinkler head locations. Adjust location and make the necessary modifications to nozzle types, etc. required to insure 100% head to head coverage. Refer to the Edge of Pavement Detail on the Irrigation Detail Sheet.

Spray heads shall be installed 4" from sidewalks or curbed roadways and 12" from uncurbed roadways and building foundations. Rotors shall be installed 4" from sidewalks or curbed roadways, 12" from building foundations, and 36" from uncurbed roadways.

Shrub heads shall be installed on 3/4" Sch 40 PVC risers. The risers shall be set at a minimum of 18" off sidewalks, roadway curbing, building foundations, and/or any other hardscaped areas. Shrub heads shall be installed to a standard height of 4" below maintained height of plants and shall be installed within planted masses to be less visible and offer protection. Paint all shrub risers with flat black or forest green paint, unless irrigation system will be installed from a reuse water system with purple PVC risers.

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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

IRRIGATION NOTES

SHEET NO. LD-53

IRRIGATION GENERAL NOTES and SPECIFICATIONS (CONTINUED)
Locate valves prior to excavation. Insure that their location provides for easy access and that there is no interference with physical structures, plants, trees, poles, etc. Valve boxes must be placed a minimum of 12" and a maximum of 15" from the edge of pavement, curbs, etc. and the top of the box must be 2" above finish grade. No valve boxes shall be installed in turf areas without approval by the irrigation designer - only in shrub beds. Never install in sport field areas.

VALVES
Sequence all valves so that the farthest valve from the P.O.C. operates first and the closest to the P.O.C. operates last. The closest valve to the P.O.C. should be the last valve in the programmed sequence.

Adjust the flow control on each RCV to ensure shut off in 10 seconds after deactivation by the irrigation controller.

VALVE BOXES

Valve boxes shall be standard unless otherwise noted to be traffic rated boxes.

Using 3" high number stencils paint the valve number in white on the lid of each valve box.

EQUIPMENT
Bubblers shall be installed using Sch 80 nipples and shall be placed at the base of trees for low level watering.

All pop-up heads and shrub risers shall be pressure compensating. All pop-up heads shall be mounted on flex-type swing joints.

All sprinkler equipment not otherwise detailed or specified shall be installed as per manufacturer's recommendations and specifications, and according to local and state laws.

TRENCHING
Excavate straight and vertical trenches with smooth, flat or sloping bottoms. Trench width and depth should be sufficient to allow for the proper vertical and horizontal separation between piping as shown in the pipe installation detail on the detail sheet.

Protect existing landscaped areas. Remove and replant any damaged plant material upon job completion. The replacement material shall be of the same genus and species, and of the size of the material it is replacing. The final determination as to what needs to be replaced and the acceptability of the replacement material shall be solely up to the owner or owner's representative.

INSTALLATION
Cut all pipe square and deburr. Clean pipe and fittings of foreign material; then apply a small amount of primer while ensuring that any excess is wiped off immediately. Primer should not puddle or drip from pipe or fittings. Next apply a thin coat of PVC cement; first apply a thin layer to the pipe, next a thin layer inside the fitting, and finally another very thin layer on the pipe. Insert the pipe into the fitting. Insure that the pipe is inserted to the bottom of the fitting, then turn the pipe a 1/4 turn and hold for 10 seconds. Make sure that the pipe doesn't recede from the fitting. If the pipe isn't at the bottom of the fitting upon completion, the glue joint is unacceptable and must be discarded.

Pipes must cure a minimum of 30 minutes prior to handling and placing into trenches. A longer curing time may be required; refer to the manufacturer's specifications. The pipe must cure a minimum of 24 hours prior to filling with water.

BACK FILL
The Back fill 6" below and 6" above all piping shall be of clean sand and anything beyond that in the trench can be of native material but nothing larger than 2" in diameter.

Main line pipe depth measured to the top of pipe shall be 36" minimum, including at vehicular crossings.

Lateral line depths measured to top of pipe shall be:
18" minimum for 3/4"-3" PVC with a 36" minimum at vehicular crossings;
24" minimum for 4" PVC and above with a 36" minimum at vehicular crossings.

Contractor shall backfill all piping, both mainline and laterals, prior to performing any pressure tests. The pipe shall be backfilled with the exception of 2' on each side of every joint (bell fittings, 90's, tees, 45's, etc.). These joints shall not be backfilled until all piping has satisfactorily passed its appropriate pressure test as outlined below.

FLUSHING
Prior to the placement of heads, flush all lines for a minimum of 10 minutes or until lines are completely clean of debris, whichever is longer.

Use screens in heads and adjust heads for proper coverage avoiding excess water on walls, walks and paving.TESTING
Remove all remote control valves and cap using a threaded cap. Fill mainline with water and pressurize the system to 125 PSI. Monitor the system pressure at two gauge locations; the gauge locations must be at opposite ends of the mainline. With the same respective pressures, monitor the gauges for two hours. There can be no loss in pressure at either gauge for solvent-welded pipe. Gasketed piping shall lose no more water than allowed per the Florida State Building Code, Volume II Plumbing, Part VI, Appendix 'F'. Refer to this section for the formula to be used to calculate the maximum allowable water loss during the testing time. If these parameters are exceeded, locate the problem; repair it; wait 24 hours and retry the test. This procedure must be followed until the mainline passes the test.

The lateral lines must be filled and visually checked for leaks. Any leaks detected must be repaired. No pressure test of the lateral lines is required.

Once the mainline and lateral lines have passed their respective tests, and the system is completely operational, a coverage test and demonstration of the system is required. The irrigation contractor must demonstrate to the owner, or his/her representative that proper coverage is obtained and that the system works automatically from the controller. This demonstration requires that each zone is turned on, in the proper sequence as shown on the plans, from the controller. Each zone will be inspected for proper coverage and function. The determination of proper coverage and function is at the sole discretion of the owner or owner's representative.

Operational Testing - Upon completion of back filling, finish grading and contouring, test the entire system for proper operation; including electrically actuating the remote control valves. Run each zone until water begins to puddle or run off. This will allow you to determine the number of irrigation start times necessary to meet the weekly evapotranspiration requirements of the planting material in each zone. In sandy soils no puddling will occur, instead; calculate the required run times.

SUBMITTALS
The contractor must submit for approval, prior to installation, copies of the manufacturer's cut sheets/specifications for all components to be used in the irrigation system.

Record Drawings - After project completion, and as a condition of final acceptance, the irrigation contractor shall provide the owner with a high quality, accurate, and legible set of as-built drawings. The as-builts must identify all remote control valves, gate valves, ball valves, splice boxes, controllers, mainline, sleeving, and low voltage wiring. Each of these items is to be located using a submeter GPS system. The irrigation contractor must also provide accurate, informative, and easy to follow and understand operation and maintenance manuals for all components of the irrigation system.

Controller charts - Upon completion of "as-built" prepare controller charts; one per controller. Indicate on each chart the area controlled by a remote control valve (using a different color for each zone). This chart shall be reduced to a size that will fit inside of the controller door. The reduction shall be hermetically sealed inside two 2ml pieces of clear plastic.

Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents. Include tools to service these products.
1. Sprinkler Units: Five of each unit for each type and size installed, but no fewer than two units.
2. Emitter Units: Five of each unit for each type and size installed, but no fewer than two units.
3. Drip Tube Units: Five of each unit for each type and size installed, but no fewer than two units.

FINAL ACCEPTANCE
Final acceptance of the irrigation system will be given after the following documents and conditions have been completed and approved. Final payment will not be released until these conditions are satisfied.
1. Final walk-thru and correction of all punch list items.
2. Completion and acceptance of `as-built' drawings.
3. Acceptance of required controller charts and placement inside of controllers.
4. Turn over of all required parts and tools as outlined in the project specifications.

GUARANTEE
The irrigation systems shall be guaranteed for a minimum of one calendar year from the time of final acceptance.

REVISIONS					
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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

IRRIGATION NOTES

SHEET NO. LD-54

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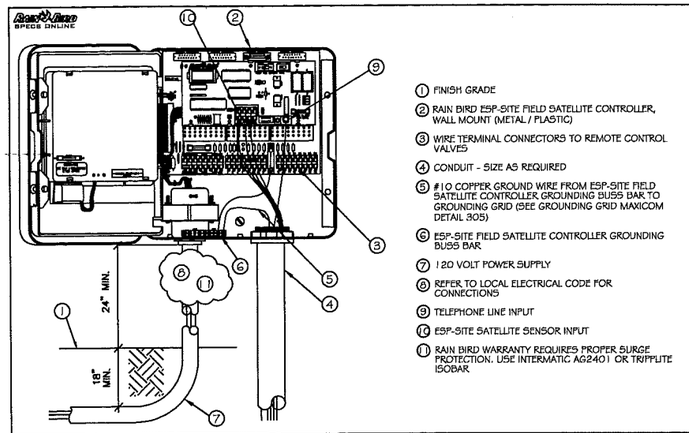
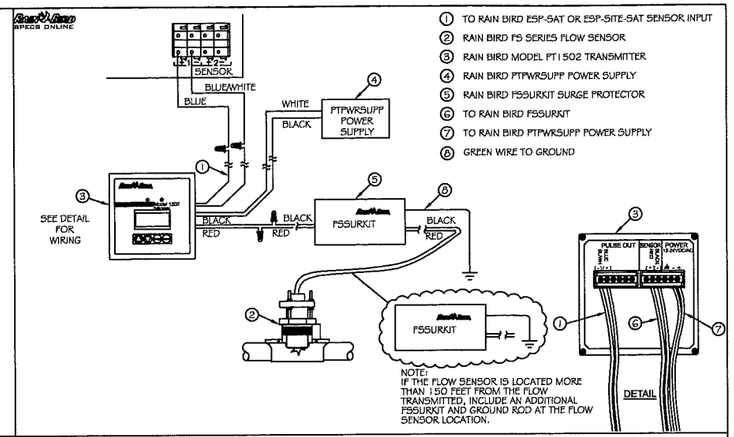


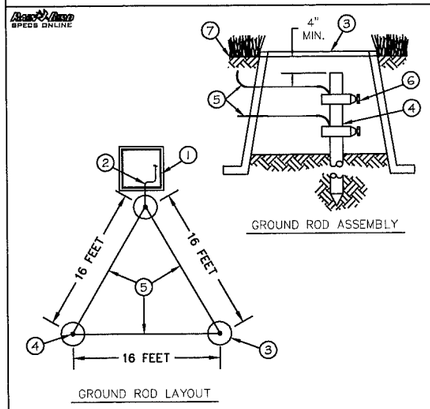
1. FINISH GRADE
2. RAIN BIRD ESP-SITE FIELD SATELLITE CONTROLLER, WALL MOUNT (METAL / PLASTIC)
3. WIRE TERMINAL CONNECTORS TO REMOTE CONTROL VALVES
4. CONDUIT - SIZE AS REQUIRED
5. #10 COPPER GROUND WIRE FROM ESP-SITE FIELD SATELLITE CONTROLLER GROUNDING BUSS BAR TO GROUNDING GRID (SEE GROUNDING GRID MAXICOM DETAIL 305)
6. ESP-SITE FIELD SATELLITE CONTROLLER GROUNDING BUSS BAR
7. 120 VOLT POWER SUPPLY
8. REFER TO LOCAL ELECTRICAL CODE FOR CONNECTIONS
9. TELEPHONE LINE INPUT
10. ESP-SITE SATELLITE SENSOR INPUT
11. RAIN BIRD WARRANTY REQUIRES PROPER SURGE PROTECTION. USE INTERMATIC AG2401 OR TRIPPLITE ISOBAR

Rain Bird Maxicom² ESP-SITE Field Satellite Controller



1. TO RAIN BIRD ESP-SAT OR ESP-SITE-SAT SENSOR INPUT
2. RAIN BIRD FS SERIES FLOW SENSOR
3. RAIN BIRD MODEL PT1502 TRANSMITTER
4. RAIN BIRD PTPWRSUPP POWER SUPPLY
5. RAIN BIRD FSSURKIT SURGE PROTECTOR
6. TO RAIN BIRD FSSURKIT
7. TO RAIN BIRD PTPWRSUPP POWER SUPPLY
8. GREEN WIRE TO GROUND

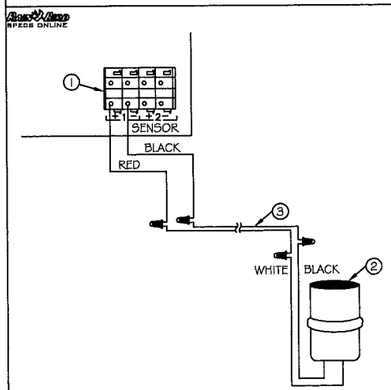
Rain Bird Maxicom² Flow Sensor



1. MAXICOM FIELD SATELLITE, WEATHER STATION OR CCU ASSEMBLY
2. SOLID BARE COPPER WIRE (#10 AWG) FROM GROUNDING ROD TO SATELLITE OR LDI/SDI/TWI ASSEMBLY. MAKE WIRE AS SHORT AND STRAIGHT AS POSSIBLE
3. COVER GROUNDING ROD WITH #10 ROUND VALVE BOX AS SHOWN
4. 5/8-INCH X 8 FT COPPER CLAD GROUNDING ROD OR GROUNDING PLATE. INSTALL RODS IN SOIL IN A TRIAGULAR PATTERN SPACED A MINIMUM OF 16 FT APART FROM EACH OTHER. GROUNDING GRID TO HAVE A RESISTANCE OF TEN (10) OHMS OR LESS
5. BARE COPPER WIRE (#10 AWG MIN.) BETWEEN GROUNDING RODS
6. GROUND ROD CLAMP OR WELDS
7. FINISH GRADE

NOTE:
REFER TO RAIN BIRD CENTRAL CONTROL TECHNICAL BULLETIN TB-9001-MULTI FOR INSTALLATION GUIDELINES.

Rain Bird Maxicom² Grounding Rod Grid Detail



1. TO ESP-SAT OR ESP-SITE-SAT SENSOR INPUT
2. RAIN BIRD RAIN GAUGE. NO MORE THAN 100 PULSES PER MINUTE MAXIMUM. MOUNT ON POLE WITH NO OBSTRUCTIONS TO RAINFALL
3. APPROVED CABLE WITH APPROPRIATE SPLICES-LENGTH AS REQUIRED (MAXIMUM 25')

Rain Bird Maxicom² Variable Rain Shut-Down

RAIN BIRD MAXICOM² ESP-SITE SATELLITE CONTROLLER

The irrigation system controller shall be a Maxicom²® Site Satellite. The central computer shall be able to send schedule instructions and receive logs of operation directly from the satellite controller. No other interface will be required. As specified in the drawings and associated documents, communication from the central computer shall be via standard dial-tone telephone, cellular phone, point-to-point radio (450-470 MHz), or direct connection serial cable as a communication link to the central computer.

The controller shall be a single unit containing a telephone modem card (dial-tone telephone or cellular telephone) and an RS- 232 serial connection card (radio or direct connect), and the encoder module.

The controller shall be of a hybrid type that combines electromechanical and microprocessor-based circuitry capable of fully automatic and manual operation. The controller will be housed in a weatherproof, lockable, 16-gauge seamless steel cabinet suitable for wall mounting, a plastic NEMA-4 rated wall mount cabinet, or free-standing stainless steel pedestal mounting.

The controller shall operate on a 117 VAC ± 10% power input and be capable of actuating up to two 24 VAC, 7VA solenoid valves per station plus a master valve or pump start relay. The controller shall be capable of operating four stations plus the master valve simultaneously. Controller output shall be protected against severe electrical surge.

As a stand-alone the controller shall have four separate irrigation programs (A, B, C, & D) which can have different start times, watering days, day cycles, and station timing. Each program shall have eight start times per day.

Controller A shall have 24 stations; controller B shall have 12 stations, with each station capable of an operating time of 0 to 2 hours in one-minute increments and 2 to 12 hours in 10-minute increments. Controller station operation shall be of automatic sequential stacking to avoid overlapping operation unless programmed to overlap.

The controller shall have a 365-day calendar with day-of-the-month OFF feature. Programs will run on an ODD/EVEN day cycle, day-of-the-week ON/OFF cycle, or in cycles from 1 to 99 days. In addition, the controller shall have a programmable rain shutdown from 1 to 99 days.

The controller shall have two master valve/remote pump start circuits for use with a master valve to pressurize the system when the irrigation cycle starts or to activate a remote pump start relay to run the pump during the irrigation cycle. One master valve/pump start circuit shall be programmable by station; the other shall function at all times.

The controller shall be capable of being operated manually at any time. A manual single station, a group of stations, or a program can be selected to run for the programmed time without affecting the normal program. This controller shall be capable of running a variable system test program without affecting the normal program.

The controller shall have Cycle+Soak™ water management software which is capable of operating each station for a maximum cycle time and a minimum soak time to reduce water run-off and puddling. The maximum cycle time shall not be extended by water budgeting.

The controller shall have an internal nonvolatile memory which will retain the irrigation program and the programmed date and time for a minimum of 100 years without power. A 9 VDC rechargeable battery and recharging circuit shall also be included for counting down the program-in-progress during a power outage and shall allow programming of the controller when it is disconnected from the main power supply.

As a satellite the controller shall indicate when it is operating under central control. It shall also display which station and channel is in operation at such time. There shall be a station status indicator light and a master valve status indicator light. These lights will indicate station operation and circuit integrity. An indicator for sensor-stand-alone status will be found on the front panel along with a switch to suspend sensor operation. This indicator and override will work with a sensor wired to the controller's sensor terminals. The controller shall be as manufactured by Rain Bird Corporation, Glendora, California.

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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

IRRIGATION NOTES & DETAILS

SHEET NO. LD-55

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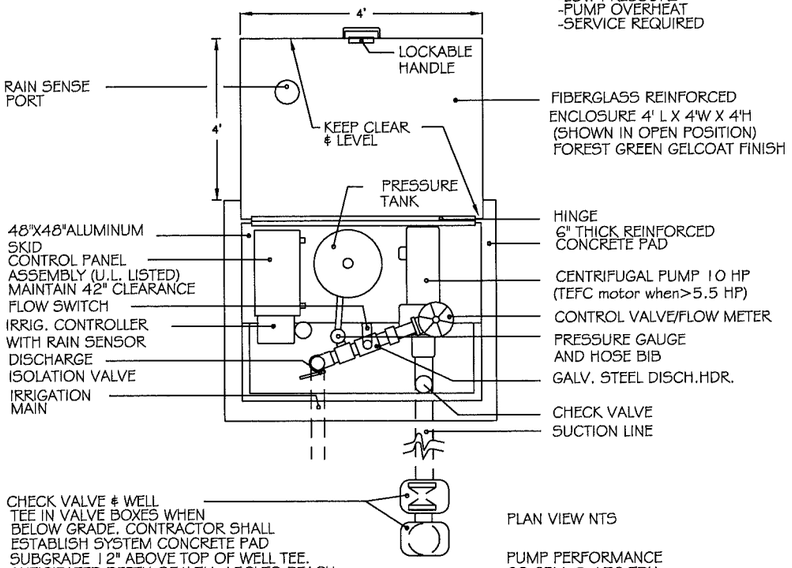
NOTE: SUCTION PIPE AND FITTINGS SHALL BE HDPE HEAT FUSED. CHECK VALVES 3" AND LARGER SHALL BE SWING TYPE, 2" AND SMALLER SHALL BE POPPET STYLE. ALL PIPE EXPOSED TO THE SUN AT THE PUMP SYSTEM SHALL BE GALVANIZED STEEL WITH GALVANIZED GROOVE FITTINGS.

WELL DRILLER SHALL NOTIFY THE PUMP SYSTEM MANUFACTURER IN WRITING WITHIN 24 HOURS OF DEVELOPING THE WELL IF THE WELL PUMPING LEVEL IS GREATER THAN 10' BELOW FINISHED GRADE AFTER 8 HOURS OF CONTINUOUS PUMPING AT 125% OF THE DESIGN FLOW BELOW.

* OPTIONAL FEATURES ARE INCLUDED IF MARKED WITH AN "X"
X PRESSURE CONTROL VALVE
X IRRIGATION CONTROLLER RAIN BIRD ESP-16SITE-W, 16 STATIONS, WITH RAIN SENSOR
X PRESSURE TANK FOR PRESSURE DEMAND SYSTEMS

SAFETY FEATURES:
PRESSURE DEMAND:
-TRANSIENT SURGE
-LOSS OF PRIME
-LOW PRESSURE
-PUMP OVERHEAT
-SERVICE REQUIRED



PLAN VIEW NTS

PUMP PERFORMANCE
80 GPM @ 178 TDH

HOOVER PUMPING MODEL: HCF-10PD-230/3-A,E-16,M,W
Pompano Beach, Florida, Tel: 954-971-7350

FILE PN#9554.DWG 11/07

FDOT SR7 COCONUT CREEK PUMP A CENTRIFUGAL PUMP SYSTEM DETAIL

FIBERGLASS ENCLOSED SINGLE WELL SUCTION
PRESSURE DEMAND

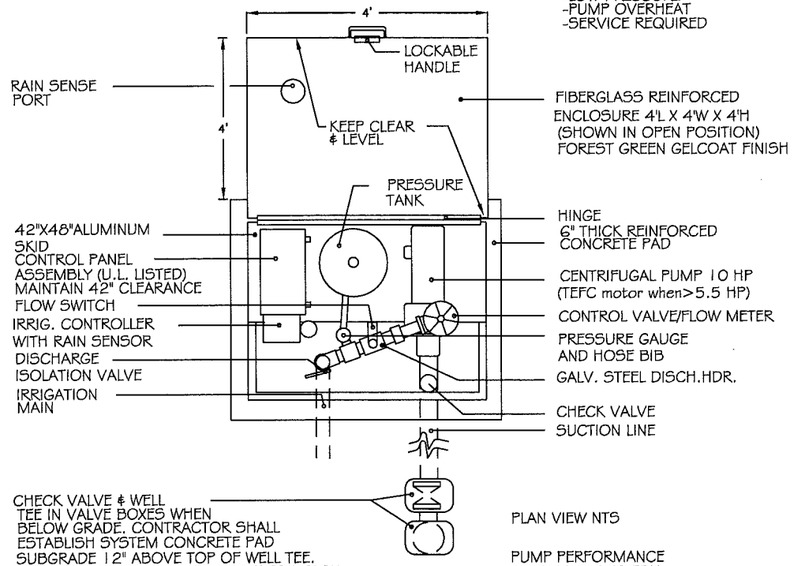
Hoover Pumping Station: Pump A - STA 37+64.17

NOTE: SUCTION PIPE AND FITTINGS SHALL BE HDPE HEAT FUSED. CHECK VALVES 3" AND LARGER SHALL BE SWING TYPE, 2" AND SMALLER SHALL BE POPPET STYLE. ALL PIPE EXPOSED TO THE SUN AT THE PUMP SYSTEM SHALL BE GALVANIZED STEEL WITH GALVANIZED GROOVE FITTINGS.

WELL DRILLER SHALL NOTIFY THE PUMP SYSTEM MANUFACTURER IN WRITING WITHIN 24 HOURS OF DEVELOPING THE WELL IF THE WELL PUMPING LEVEL IS GREATER THAN 10' BELOW FINISHED GRADE AFTER 8 HOURS OF CONTINUOUS PUMPING AT 125% OF THE DESIGN FLOW BELOW.

* OPTIONAL FEATURES ARE INCLUDED IF MARKED WITH AN "X"
X PRESSURE CONTROL VALVE
X IRRIGATION CONTROLLER RAIN BIRD ESP-SITE-W 12 STATIONS, WITH RAIN SENSOR
X PRESSURE TANK FOR PRESSURE DEMAND SYSTEMS

SAFETY FEATURES:
PRESSURE DEMAND:
-TRANSIENT SURGE
-LOSS OF PRIME
-LOW PRESSURE
-PUMP OVERHEAT
-SERVICE REQUIRED



PLAN VIEW NTS

PUMP PERFORMANCE
80 GPM @ 178 TDH

HOOVER PUMPING MODEL: HCF-10PD-230/3-A,E-12,M,W
Pompano Beach, Florida, Tel: 954-971-7350

FILE PN#9555.DWG 11/07

FDOT SR7 COCONUT CREEK PUMP B CENTRIFUGAL PUMP SYSTEM DETAIL

FIBERGLASS ENCLOSED SINGLE WELL SUCTION
PRESSURE DEMAND

Hoover Pumping Station: Pump B - STA 80+61.32

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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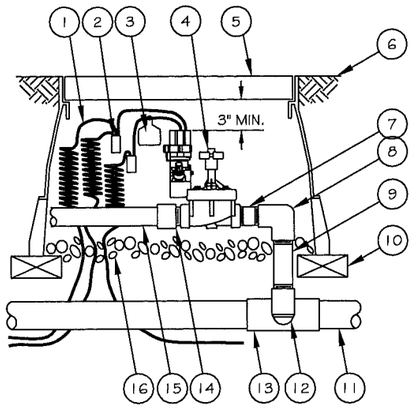
CITY OF COCONUT CREEK

ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

IRRIGATION DETAILS

SHEET NO.
LD-56



1. 30-INCH LINEAR LENGTH OF WIRE, COILED
2. WATERPROOF CONNECTION RAIN BIRD SPLICE-1 (1 OF 2)
3. ID TAG: RAIN BIRD VID SERIES
4. REMOTE CONTROL VALVE: RAIN BIRD PESB-PRS-D WITH NP-HAN
5. VALVE BOX WITH COVER: RAIN BIRD VB-STD or equal In areas that are subject to vehicle traffic, valve boxes to be traffic-rated.
6. FINISH GRADE/TOP OF MULCH
7. PVC SCH 80 NIPPLE (CLOSE)
8. PVC SCH 40 ELL
9. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
10. BRICK (1 OF 4)
11. PVC MAINLINE PIPE
12. SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
13. PVC SCH 40 TEE OR ELL
14. PVC SCH 40 MALE ADAPTER
15. PVC LATERAL PIPE
16. 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

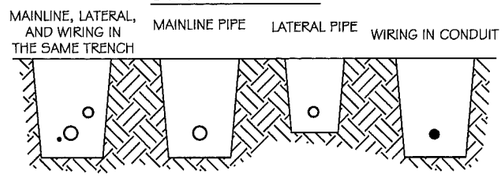
ELECTRICAL SPECIFICATIONS

- 24 VAC 50/60 Hz (CYCLES/SEC.) SOLENOID
- INRUSH CURRENT: 0.41 A (9.84 VA) AT 60 Hz
- HOLDING CURRENT: 0.28 A (6.72 VA) AT 60 Hz
- COIL RESISTANCE: 30-39 OHMS

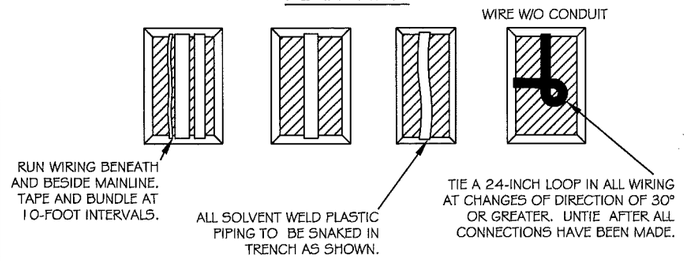
PEB SERIES VALVE PRESSURE LOSS

FLOW GPM	100-PEB PSI LOSS	150-PEB PSI LOSS	200-PEB PSI LOSS
5	1.7		
10	1.8		
20	2.9		
30	5.6	3.6	
40		3.5	
50		3.6	
75		5.4	4.5
100			5.2
125			8.2

SECTION VIEW



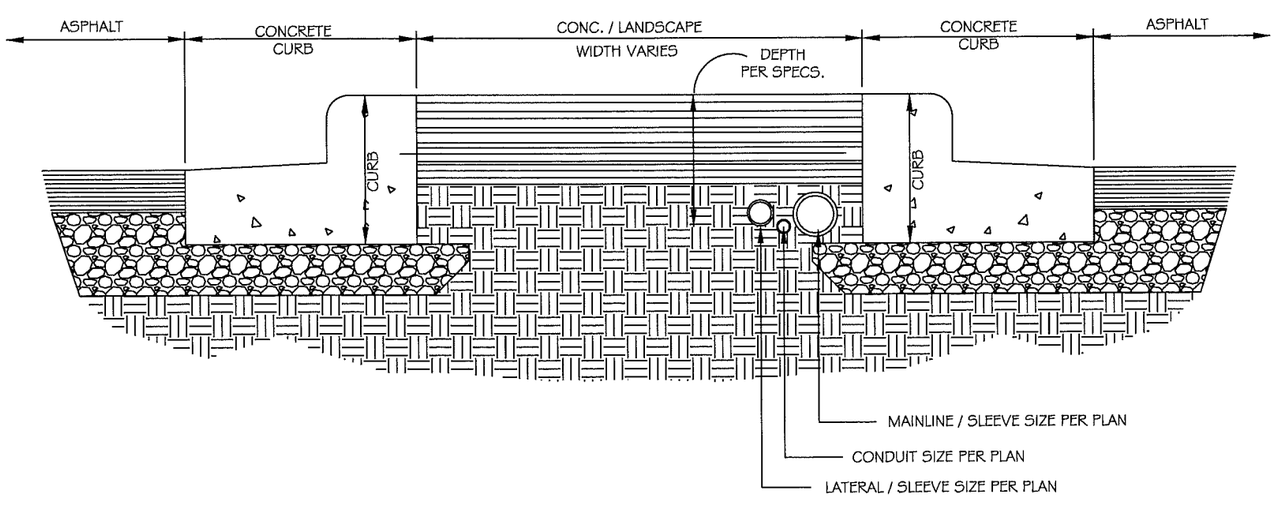
PLAN VIEW



NOTES:
1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH SCH 40 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.
2. FOR PIPE AND WIRE BURIAL DEPTHS SEE SPECIFICATIONS.

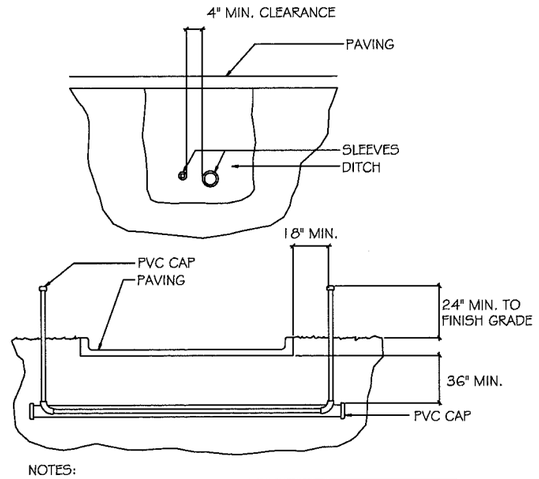
Rain Bird PEB-PRS-D Remote Control Valve

Pipe and Wire Trenching



SECTION VIEW N.T.S.

Curb to Curb Section



NOTES:
1. ALL PVC IRRIGATION SLEEVING TO BE SCHEDULE 40 OR H.P.P.E. (PER PLAN).
2. ALL JOINTS TO BE SOLVENT WELDED AND WATERTIGHT.
3. WHERE THERE IS MORE THAN ONE SLEEVE, EXTEND SMALLER SLEEVE TO 24" MIN. ABOVE FINISH GRADE.
4. MECHANICALLY TAMP TO 95% PROCTOR.

Irrigation Sleeving Detail

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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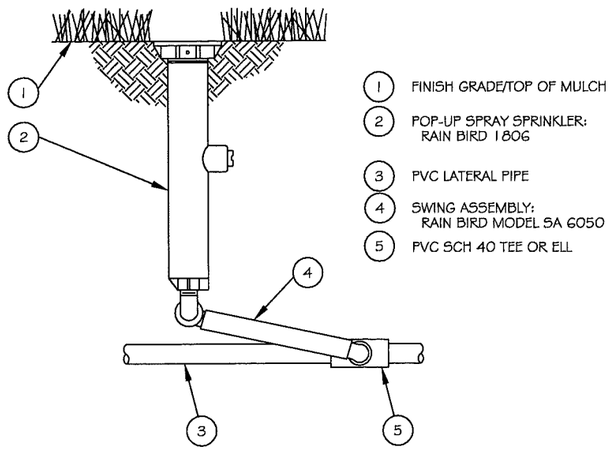
CITY OF COCONUT CREEK

ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

IRRIGATION DETAILS

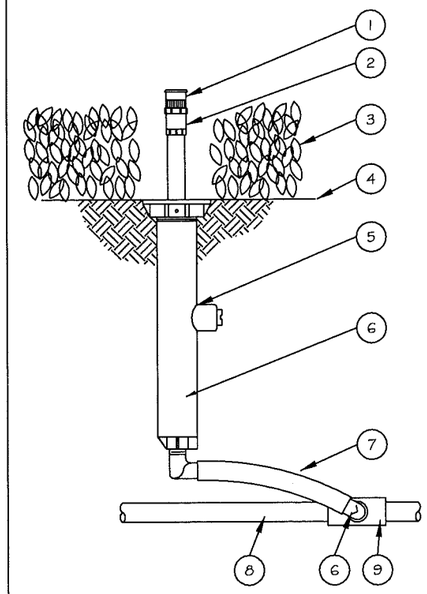
SHEET NO. LD-57

nperez 8/6/2008 10:23:37 AM v:\projects\2007\07-00239-s-7us441_landscape_plans\07023900000\landscp\DETLLD02.dgn



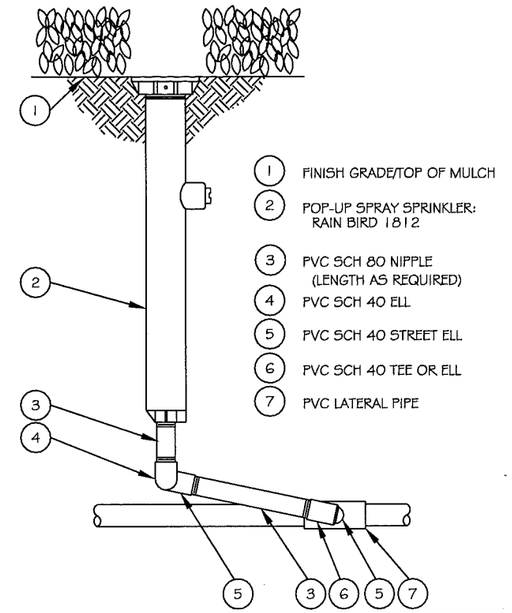
1. FINISH GRADE/TOP OF MULCH
2. POP-UP SPRAY SPRINKLER: RAIN BIRD 1806
3. PVC LATERAL PIPE
4. SWING ASSEMBLY: RAIN BIRD MODEL SA 6050
5. PVC SCH 40 TEE OR ELL

Rain Bird 1806-SAM-PRS-NP Pop-up Spray



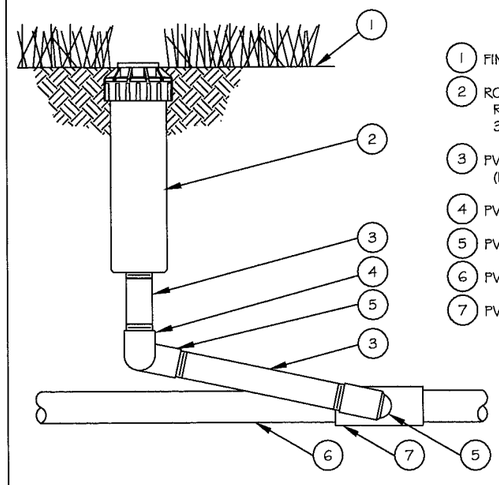
1. PRESSURE COMPENSATING FULL-CIRCLE BUBBLER: RAIN BIRD 1400
2. PLASTIC ADAPTER: RAIN BIRD MODEL PA-80
3. PLANT MATERIAL
4. FINISH GRADE/TOP OF MULCH
5. POP-UP SPRAY SPRINKLER: RAIN BIRD 1806
6. 1/2-INCH MALE NPT x .490-INCH BARB ELBOW: RAIN BIRD MODEL SBE-050
7. SWING PIPE, 12-INCH LENGTH: RAIN BIRD MODEL SP-100
8. PVC LATERAL PIPE
9. PVC SCH 40 TEE OR ELL

Rain Bird 1806-SAM-PRS-1400 FLOOD Pop-up Spray



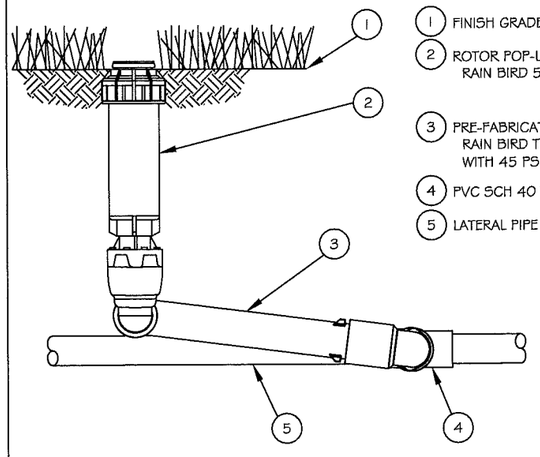
1. FINISH GRADE/TOP OF MULCH
2. POP-UP SPRAY SPRINKLER: RAIN BIRD 1812
3. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
4. PVC SCH 40 ELL
5. PVC SCH 40 STREET ELL
6. PVC SCH 40 TEE OR ELL
7. PVC LATERAL PIPE

Rain Bird 1812-SAM-PRS-NP Pop-up Spray



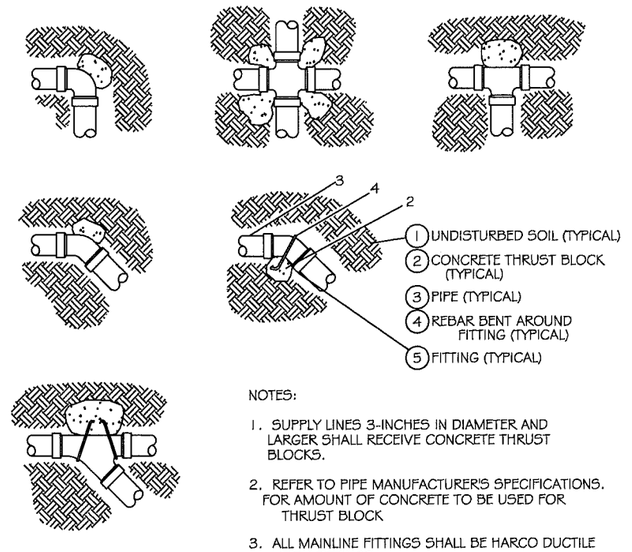
1. FINISH GRADE
2. ROTOR POP-UP SPRINKLER: RAIN BIRD 3504-PC
3. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
4. PVC SCH 40 ELL
5. PVC SCH 40 STREET ELL
6. PVC LATERAL PIPE
7. PVC SCH 40 TEE OR ELL

Rain Bird 3504-PC-SAM-NP Rotor



1. FINISH GRADE
2. ROTOR POP-UP SPRINKLER: RAIN BIRD 5004
3. PRE-FABRICATED SWING JOINT: RAIN BIRD TSJ-075-PRS WITH 45 PSI PRESSURE REGULATOR
4. PVC SCH 40 TEE OR ELL
5. LATERAL PIPE

Rain Bird 5004-MPR-SAM-NP Rotor



1. UNDISTURBED SOIL (TYPICAL)
2. CONCRETE THRUST BLOCK (TYPICAL)
3. PIPE (TYPICAL)
4. REBAR BENT AROUND FITTING (TYPICAL)
5. FITTING (TYPICAL)

NOTES:

1. SUPPLY LINES 3-INCHES IN DIAMETER AND LARGER SHALL RECEIVE CONCRETE THRUST BLOCKS.
2. REFER TO PIPE MANUFACTURER'S SPECIFICATIONS. FOR AMOUNT OF CONCRETE TO BE USED FOR THRUST BLOCK
3. ALL MAINLINE FITTINGS SHALL BE HARCO DUCTILE IRON FITTINGS.

Thrust Block Details

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CITY OF COCONUT CREEK		
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

IRRIGATION DETAILS

SHEET NO. LD-58

NOTES:
1. Irrigation components and pipe are schematic only.
2. Mainline to be routed along curbline 18"-24" from back of curb.
3. Routing outside of median is shown for clarity purposes.
4. Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same species and adjust trench location to avoid conflicts with utilities.

N

0 7.5 30
Feet

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
	Rain Bird 1812-SAM-PRS 12 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	9	360	30	2.6	12'
	Rain Bird 1812-SAM-PRS 12 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	2	180	30	1.3	12'
	Rain Bird 1812-SAM-PRS 15 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	20	180	30	1.9	15'
	Rain Bird 1812-SAM-PRS 15 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	4		30	0.9	15'
	Rain Bird 1806-SAM-PRS-1400 Flood Flood Bubbler 6" popup with check valve and pressure regulator	30	360	30	0.5	1'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY		PSI	GPM	RADIUS
	Rain Bird 5004-MPR-SAM Turf Rotor, 4" pop-up, matched precipitation rotor, Seal-A-Matic check valve, arc and radius as per symbol. 25 ft=red, 30 ft=green, 35ft=beige	2	90	45	1.0	25'
	Rain Bird 5004-MPR-SAM Turf Rotor, 4" pop-up, matched precipitation rotor, Seal-A-Matic check valve, arc and radius as per symbol. 25 ft=red, 30 ft=green, 35ft=beige	17		45	2.0	25'

SAWGRASS EXPRESSWAY RAMP

F.D.O.T. RETENTION AREA

SR7/US441

2-A	
1"	26.5

3	
1½"	51.5

1	
1½"	66.7

4	
1½"	52.5

0

BEGIN PROJECT
BEGIN IRRIGATION
STA: 0+00

NORMALLY CLOSED GATE VALVE.
PULL 4 WIRES AND ONE COMMON TO THIS LOCATION AND PLACE IN A TRAFFIC RATED VALVE BOX FOR FUTURE EXPANSION.

4"/2" SLEEVE

6"/2" HDPE Sleeves Directional Bore

3"

DRIVEWAY

COMMERCIAL

4449.00

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY
	Rain Bird PEB-PRS-D 1" Electric Remote Control Valve with Pressure Regulator.	2
	Rain Bird PEB-PRS-D 1-1/2" Electric Remote Control Valve with Pressure Regulator.	2
	Nibco P-619-rw Gasketed 'o' Ring Cast Iron Gate Valve (line Size) in a Carson 1419 Valve Box.	1
	Irrigation Lateral Line: PVC Class 200 3/4"	1166
	Irrigation Lateral Line: PVC Class 200 1"	340
	Irrigation Lateral Line: PVC Class 200 1 1/4"	36
	Irrigation Lateral Line: PVC Class 200 1 1/2"	9
	Irrigation Lateral Line: PVC Class 200 2"	80
	Irrigation Lateral Line: PVC Class 200 2 1/2"	241
	Irrigation Mainline: PVC Class 200 3"	464
	Pipe Sleeve: HDPE Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	54
	Pipe Sleeve: SCH 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	14

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CITY OF COCONUT CREEK		
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

IRRIGATION PLAN

SHEET NO. LD-59

FDOT

RESIDENTIAL

N

0 7.5 30
Feet

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
⊛	Rain Bird 1806-SAM-PRS-1400 Flood Flood Bubbler 6" popup with check valve and pressure regulator	23	360	30	0.5	1'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY		PSI	GPM	RADIUS
⊛	Rain Bird 5004-MPR-SAM Turf Rotor, 4" pop-up, matched precipitation rotor, Seal-A-Matic check valve, arc and radius as per symbol. 25 ft=red, 30 ft=green, 35ft=beige	1		45	1.0	25'
⊛	Rain Bird 5004-MPR-SAM Turf Rotor, 4" pop-up, matched precipitation rotor, Seal-A-Matic check valve, arc and radius as per symbol. 25 ft=red, 30 ft=green, 35ft=beige	34		45	2.0	25'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY
	Irrigation Lateral Line: PVC Class 200 3/4"	1089
	Irrigation Lateral Line: PVC Class 200 1"	157
	Irrigation Lateral Line: PVC Class 200 1 1/4"	22
	Irrigation Lateral Line: PVC Class 200 2"	13
	Irrigation Lateral Line: PVC Class 200 2"	290
	Irrigation Lateral Line: PVC Class 200 2 1/2"	0
	Irrigation Mainline: PVC Class 200 3"	454
	Pipe Sleeve: HDPE Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	50

R/W

4+49.00

8+98.00

SR7/US441

NW 61 ST

3"

6"/2" HDPE Sleeves
Directional Bore

NOTES:
1. Irrigation components and pipe are schematic only.
2. Mainline to be routed along curbline 18"-24" from back of curb.
3. Routing outside of median is shown for clarifty purposes.
4. Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same species and adjust trench location to avoid conflicts with utilities.

SERVICE ROAD

STORM WATER
RETENTION AREA

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

IRRIGATION PLAN

SHEET NO.
LD-60

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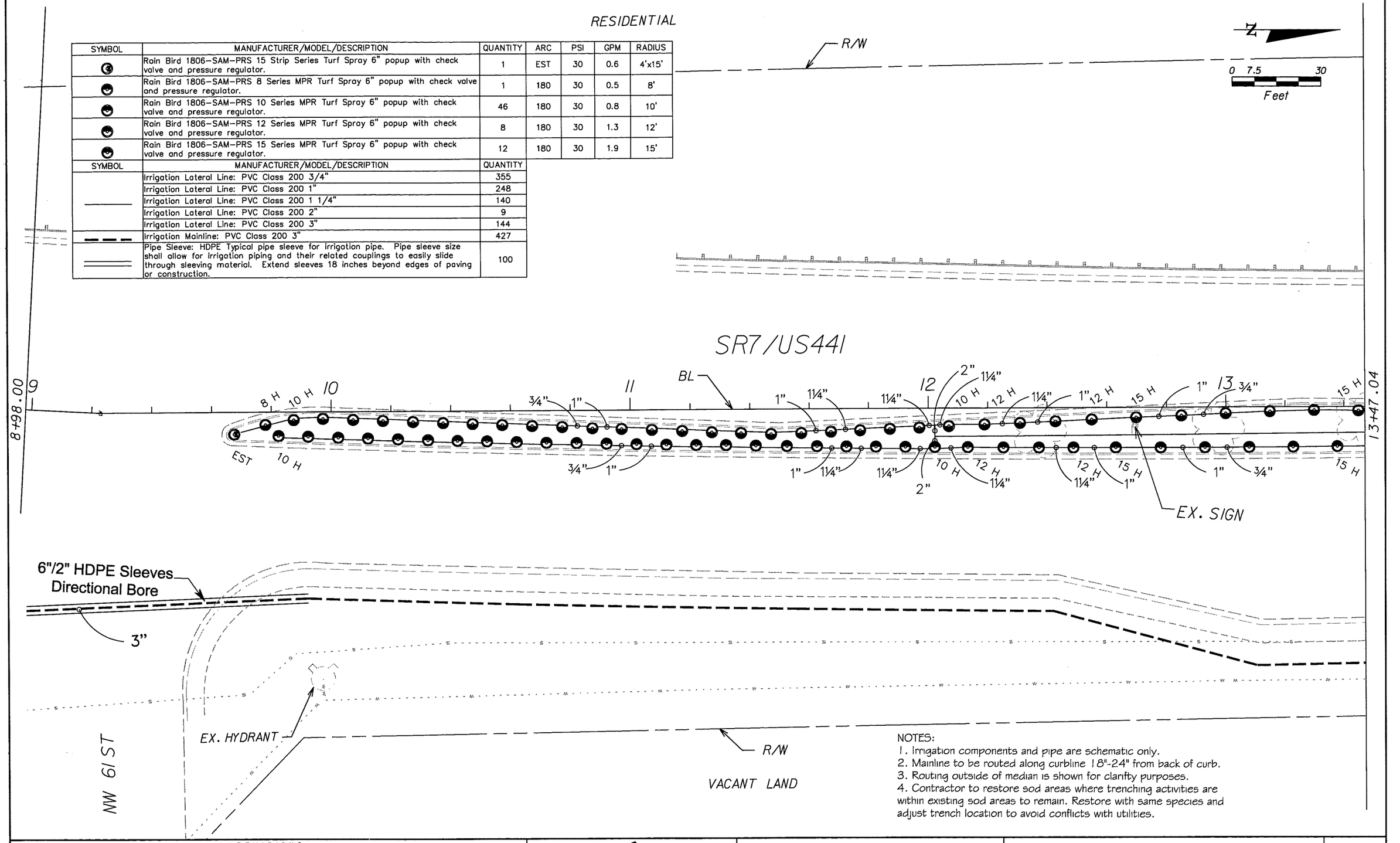
RESIDENTIAL

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
	Rain Bird 1806-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	1	EST	30	0.6	4'x15'
	Rain Bird 1806-SAM-PRS 8 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	1	180	30	0.5	8'
	Rain Bird 1806-SAM-PRS 10 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	46	180	30	0.8	10'
	Rain Bird 1806-SAM--PRS 12 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	8	180	30	1.3	12'
	Rain Bird 1806-SAM-PRS 15 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	12	180	30	1.9	15'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY
	Irrigation Lateral Line: PVC Class 200 3/4"	355
	Irrigation Lateral Line: PVC Class 200 1"	248
	Irrigation Lateral Line: PVC Class 200 1 1/4"	140
	Irrigation Lateral Line: PVC Class 200 2"	9
	Irrigation Lateral Line: PVC Class 200 3"	144
	Irrigation Mainline: PVC Class 200 3"	427
	Pipe Sleeve: HDPE Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	100



NOTES:
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2. Mainline to be routed along curbline 18"-24" from back of curb.
3. Routing outside of median is shown for clarifty purposes.
4. Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same species and adjust trench location to avoid conflicts with utilities.

REVISIONS					
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CITY OF COCONUT CREEK		
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

IRRIGATION PLAN

SHEET NO. LD-61

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SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
	Rain Bird 1806-SAM-PRS 15 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	60	180	30	1.9	15'
	Rain Bird 1806-SAM-PRS-1400 Flood Flood Bubbler 6" popup with check valve and pressure regulator	14	360	30	0.5	1'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY
	Rain Bird PEB-PRS-D 1" Electric Remote Control Valve with Pressure Regulator.	1
	Rain Bird PEB-PRS-D 2" Electric Remote Control Valve with Pressure Regulator.	2
	Nibco P-619-rw Gasketed 'o' Ring Cast Iron Gate Valve (line Size) in a Carson 1419 Valve Box.	1
	Irrigation Lateral Line: PVC Class 200 3/4"	907
	Irrigation Lateral Line: PVC Class 200 1"	306
	Irrigation Lateral Line: PVC Class 200 1 1/4"	45
	Irrigation Lateral Line: PVC Class 200 2"	11
	Irrigation Lateral Line: PVC Class 200 2 1/2"	11
	Irrigation Lateral Line: PVC Class 200 3"	159
	Irrigation Mainline: PVC Class 200 3"	809
	Pipe Sleeve: HDPE Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	213

RESIDENTIAL

R/W

N

0 7.5 30
Feet

13+47.00

17+96.00

6	
2"	75.9

2-B	
1"	8.0

5	
2"	75.6

3" 15 H 14 ¾" 1" 1" 15 1¼" 2" 2½" 1¼" 1" BL 1" 16 ¾" ¾" 17 ¾" 1" 15 H

15 H ¾" 1" 1" 1¼" 2" 1¼" 1" 1" ¾" ¾" 1" 15 H 1"

SR7/US441

6"/2" HDPE Sleeves Directional Bore

3"

Nibco P-619-RW 3" Gate Valve

6"/2" HDPE Sleeves Directional Bore

3"

6"/2" HDPE Sleeves Directional Bore

R/W

VACANT LAND

DRIVEWAY

GAS STATION

NOTES:
1. Irrigation components and pipe are schematic only.
2. Mainline to be routed along curbline 18"-24" from back of curb.
3. Routing outside of median is shown for clarity purposes.
4. Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same species and adjust trench location to avoid conflicts with utilities.

REVISIONS					
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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

IRRIGATION PLAN

SHEET NO. LD-62

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SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
	Rain Bird 1806-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	13	CST	30	1.2	4'x30'
	Rain Bird 1806-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	2	EST	30	0.6	4'x15'
	Rain Bird 1806-SAM-PRS 15 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	19	180	30	1.9	15'
	Rain Bird 1806-SAM-PRS 15 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	2	90	30	0.9	15'
	Rain Bird 1812-SAM-PRS 15 Strip Series Shrub Spray 12" popup with check valve, pressure regulator	1	EST	30	0.6	4'x15'
	Rain Bird 1812-SAM-PRS 15 Strip Series Shrub Spray 12" popup with check valve, pressure regulator	2	SST	30	1.2	4'x30'
	Rain Bird 1812-SAM-PRS 12 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	2	180	30	1.3	12'
	Rain Bird 1812-SAM-PRS 12 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	2	90	30	0.7	12'
	Rain Bird 1806-SAM-PRS-1400 Flood Flood Bubbler 6" popup with check valve and pressure regulator	2	360	30	0.5	1'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY
	Rain Bird PEB-PRS-D 1" Electric Remote Control Valve with Pressure Regulator.	1
	Rain Bird PEB-PRS-D 2" Electric Remote Control Valve with Pressure Regulator.	1
	Irrigation Lateral Line: PVC Class 200 3/4"	560
	Irrigation Lateral Line: PVC Class 200 1"	185
	Irrigation Lateral Line: PVC Class 200 1 1/4"	113
	Irrigation Lateral Line: PVC Class 200 1 1/2"	7
	Irrigation Lateral Line: PVC Class 200 2"	13
	Irrigation Lateral Line: PVC Class 200 3"	9
	Irrigation Mainline: PVC Class 200 3"	483
	Pipe Sleeve: HDPE Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	65
	Pipe Sleeve: SCH 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	30

RESIDENTIAL

R/W

0 7.5 30
Feet

8-A
1" | 6.9

7
2" | 79.2

17+99.00

22+45.00

2" SLEEVE

2" SLEEVE

4" SLEEVE

BL

SR7/US441

6"/2" HDPE Sleeves
Directional Bore

6"/2" HDPE Sleeves
Directional Bore

R/W

COMMERCIAL

DRIVEWAY

RESTAURANT

NOTES:
1. Irrigation components and pipe are schematic only.
2. Mainline to be routed along curbline 18"-24" from back of curb.
3. Routing outside of median is shown for clarity purposes.
4. Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same species and adjust trench location to avoid conflicts with utilities.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

MILLER LEGG
1800 North Douglas Road · Suite 200 · Pembroke Pines, Florida · 33024
954-436-7000 · Fax: 954-436-8664 · www.millerlegg.com
Cert. of Auth.: LC0000337 · L.A. of Record: Brian R. Shore LA-6666770

CITY OF COCONUT CREEK

ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

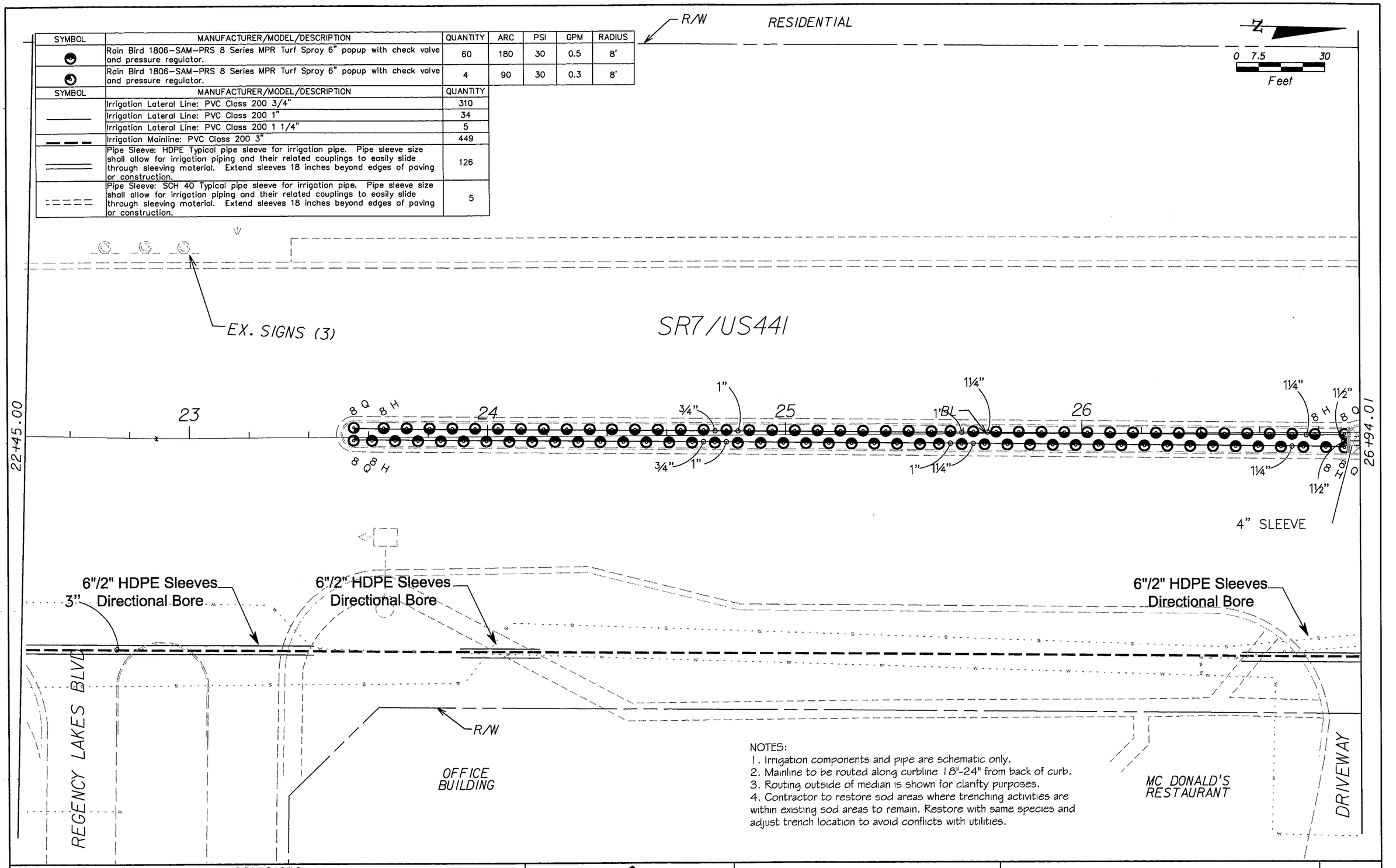
IRRIGATION PLAN

SHEET NO.
LD-63

nperez 8/6/2008 10:24:15 AM v:\projects\2007\07-00239-s-7us441_landscape_plans\07023900000\landscp\Planld48.dgn

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
	Rain Bird 1806-SAM-PRS 8 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	60	180	30	0.5	8'
	Rain Bird 1806-SAM-PRS 8 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	4	90	30	0.3	8'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY
	Irrigation Lateral Line: PVC Class 200 3/4"	310
	Irrigation Lateral Line: PVC Class 200 1"	34
	Irrigation Lateral Line: PVC Class 200 1 1/4"	5
	Irrigation Mainline: PVC Class 200 3"	449
	Pipe Sleeve: HDPE Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	126
	Pipe Sleeve: SCH 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	5



NOTES:
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2. Mainline to be routed along curbline 18"-24" from back of curb.
3. Routing outside of median is shown for clarifty purposes.
4. Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same species and adjust trench location to avoid conflicts with utilities.

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CITY OF COCONUT CREEK		
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

IRRIGATION PLAN

SHEET NO. LD-64

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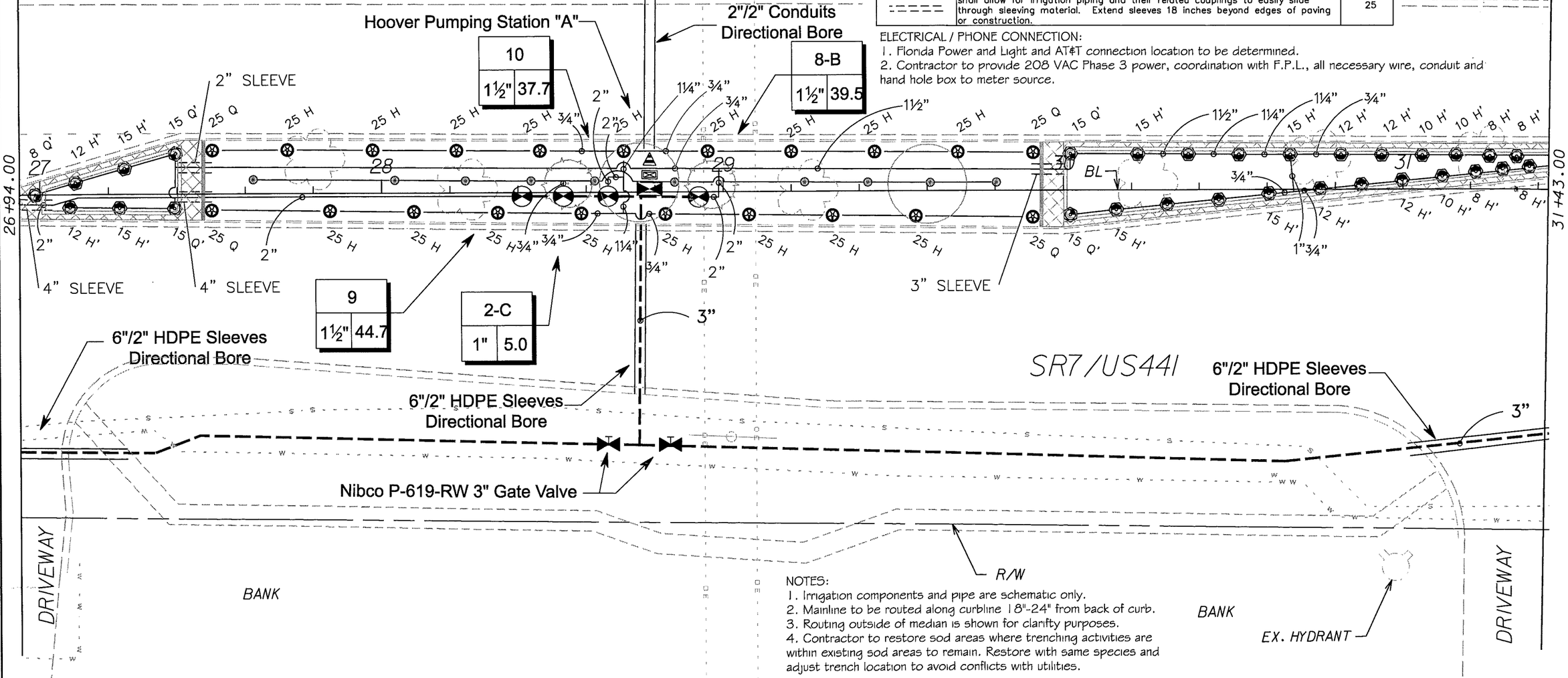
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
	Rain Bird 1812-SAM-PRS 8 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	5	180	30	0.5	8'
	Rain Bird 1812-SAM-PRS 8 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	1	90	30	0.3	8'
	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	3	180	30	0.8	10'
	Rain Bird 1812-SAM-PRS 12 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	7	180	30	1.3	12'
	Rain Bird 1812-SAM-PRS 15 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	10	180	30	1.9	15'
	Rain Bird 1812-SAM-PRS 15 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	4	90	30	0.9	15'
	Rain Bird 1806-SAM-PRS-1400 Flood Flood Bubbler 6" popup with check valve and pressure regulator	10	360	30	0.5	1'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY		PSI	GPM	RADIUS
	Rain Bird 5004-MPR-SAM Turf Rotor, 4" pop-up, matched precipitation rotor, Seal-A-Matic check valve, arc and radius as per symbol. 25 ft=red, 30 ft=green, 35ft=beige	4		45	1.0	25'
	Rain Bird 5004-MPR-SAM Turf Rotor, 4" pop-up, matched precipitation rotor, Seal-A-Matic check valve, arc and radius as per symbol. 25 ft=red, 30 ft=green, 35ft=beige	17		45	2.0	25'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY
	Rain Bird PEB-PRS-D 1" Electric Remote Control Valve with Pressure Regulator.	1
	Rain Bird PEB-PRS-D 1-1/2" Electric Remote Control Valve with Pressure Regulator.	3
	Nibco P-619-rw Gasketed 'o' Ring Cast Iron Gate Valve (line Size) in a Carson 1419 Valve Box.	2
	Hoover Pumping Station Model: HCF-10PD-230/3-A,E-16,M,W	1
	Rain Bird ESP-24SAT Satellite Controller - 24 Stations	1
	Rain Bird Maxicom Rain Gauge	1
	Irrigation Lateral Line: PVC Class 200 3/4"	1186
	Irrigation Lateral Line: PVC Class 200 1"	12
	Irrigation Lateral Line: PVC Class 200 1 1/4"	198
	Irrigation Lateral Line: PVC Class 200 1 1/2"	145
	Irrigation Lateral Line: PVC Class 200 2"	24
	Irrigation Mainline: PVC Class 200 3"	576
	Pipe Sleeve: HDPE Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	110
	Pipe Sleeve: SCH 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	25

0 7.5 30
Feet

ELECTRICAL / PHONE CONNECTION:
1. Florida Power and Light and AT&T connection location to be determined.
2. Contractor to provide 208 VAC Phase 3 power, coordination with F.P.L., all necessary wire, conduit and hand hole box to meter source.



NOTES:
1. Irrigation components and pipe are schematic only.
2. Mainline to be routed along curbline 18"-24" from back of curb.
3. Routing outside of median is shown for clarity purposes.
4. Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same species and adjust trench location to avoid conflicts with utilities.

REVISIONS

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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

IRRIGATION PLAN

SHEET NO. LD-65

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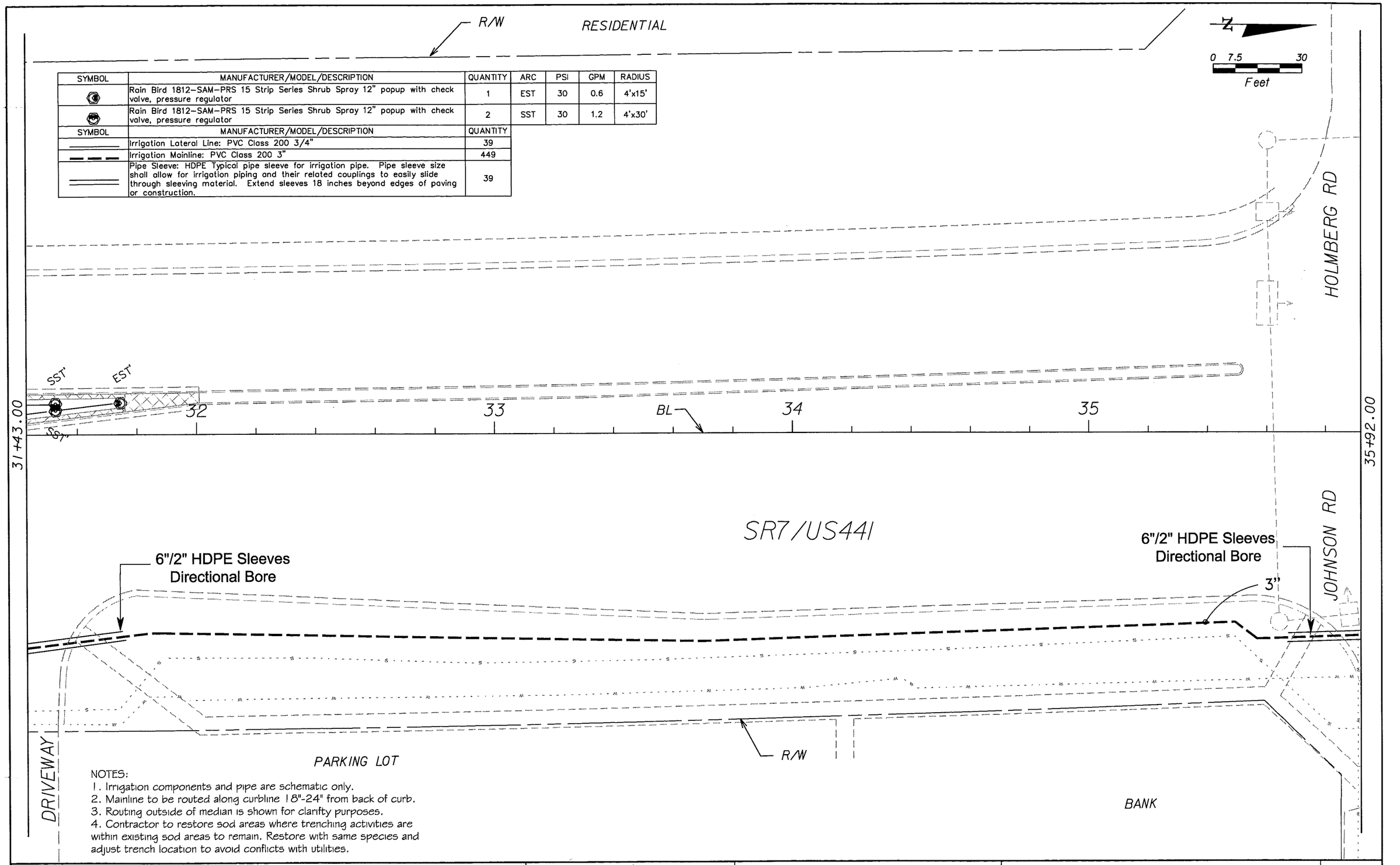
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
	Rain Bird 1812-SAM-PRS 15 Strip Series Shrub Spray 12" popup with check valve, pressure regulator	1	EST	30	0.6	4'x15'
	Rain Bird 1812-SAM-PRS 15 Strip Series Shrub Spray 12" popup with check valve, pressure regulator	2	SST	30	1.2	4'x30'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY
	Irrigation Lateral Line: PVC Class 200 3/4"	39
	Irrigation Mainline: PVC Class 200 3"	449
	Pipe Sleeve: HDPE Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	39



NOTES:
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CITY OF COCONUT CREEK		
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

IRRIGATION PLAN

SHEET NO. LD-66

nperez 8/6/2008 10:24:33 AM v:\projects\2007\07-00239-s-7us441_landscape_plans\07023900000\landscp\Planld5l.dgn

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
	Rain Bird 1806-SAM-PRS 15 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	21	180	30	1.9	15'
	Rain Bird 1806-SAM-PRS 15 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	4	90	30	0.9	15'
	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	2	90	30	0.4	10'
	Rain Bird 1812-SAM-PRS 12 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	7	180	30	1.3	12'
	Rain Bird 1812-SAM-PRS 15 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	9	180	30	1.9	15'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY
	Rain Bird PEB-PRS-D 1-1/2" Electric Remote Control Valve with Pressure Regulator.	2
	Irrigation Lateral Line: PVC Class 200 3/4"	576
	Irrigation Lateral Line: PVC Class 200 1"	14
	Irrigation Lateral Line: PVC Class 200 1 1/4"	27
	Irrigation Lateral Line: PVC Class 200 2"	195
	Irrigation Mainline: PVC Class 200 3"	486
	Pipe Sleeve: HDPE Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	131
	Pipe Sleeve: SCH 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	7

NOTES:
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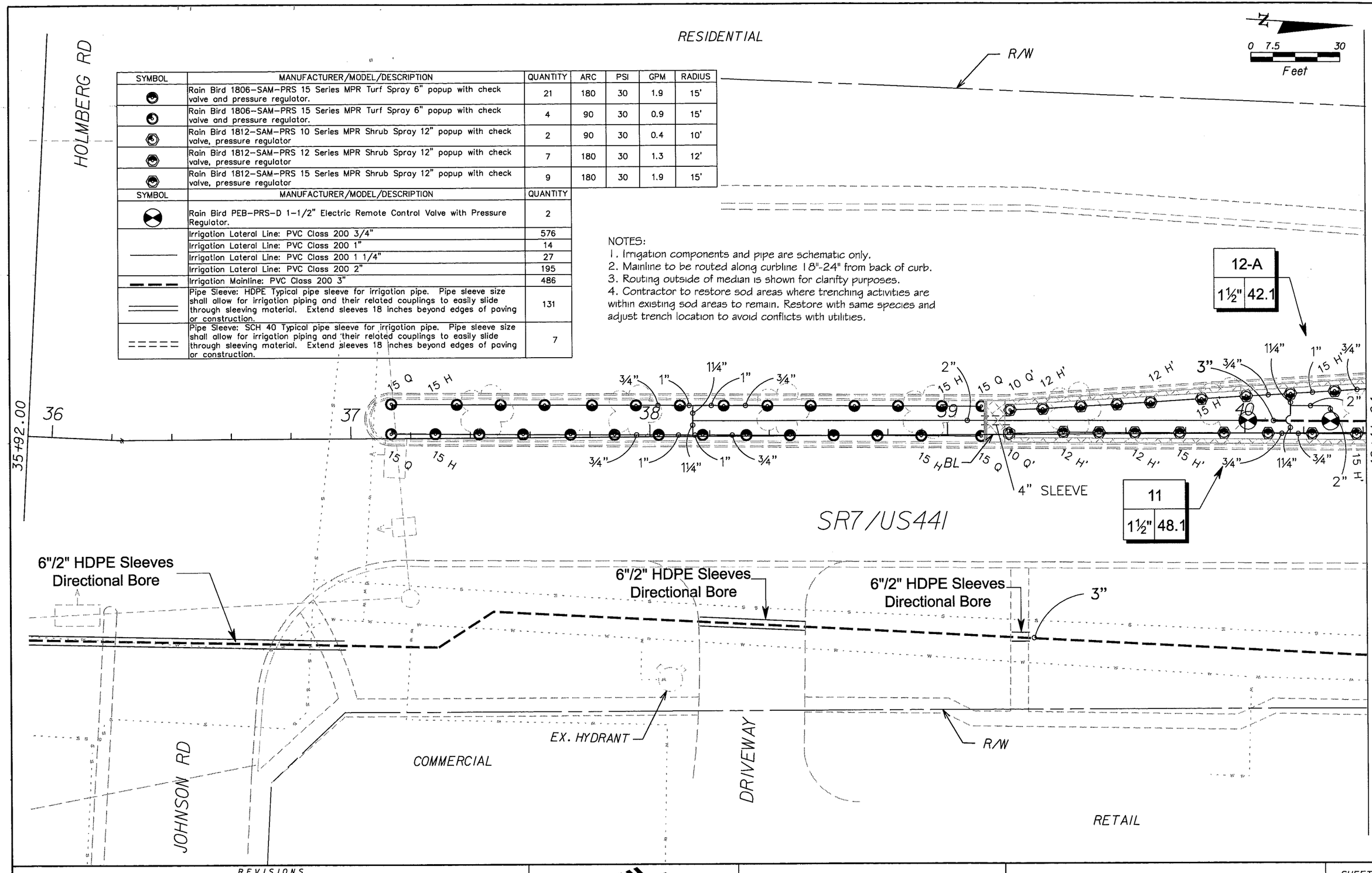

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CITY OF COCONUT CREEK		
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

IRRIGATION PLAN

SHEET NO. LD-67

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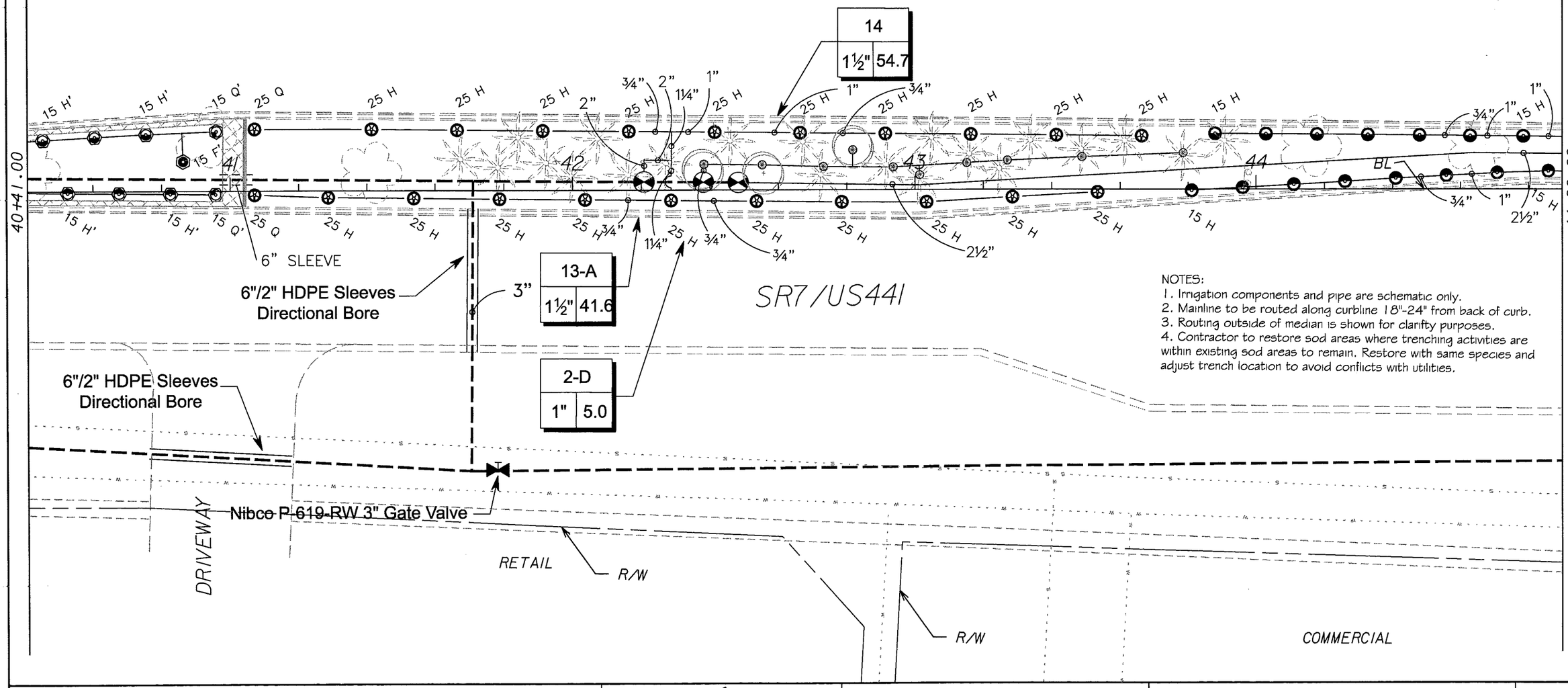
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
	Rain Bird 1806-SAM-PRS 15 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	15	180	30	1.9	15'
	Rain Bird 1812-SAM-PRS 12 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	1	360	30	2.6	12'
	Rain Bird 1812-SAM-PRS 15 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	6	180	30	1.9	15'
	Rain Bird 1812-SAM-PRS 15 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	2	90	30	0.9	15'
	Rain Bird 1806-SAM-PRS-1400 Flood Flood Bubbler 6" popup with check valve and pressure regulator	10	360	30	0.5	1'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY		PSI	GPM	RADIUS
	Rain Bird 5004-MPR-SAM Turf Rotor, 4" pop-up, matched precipitation rotor, Seal-A-Matic check valve, arc and radius as per symbol. 25 ft=red, 30 ft=green, 35ft=beige	2		45	1.0	25'
	Rain Bird 5004-MPR-SAM Turf Rotor, 4" pop-up, matched precipitation rotor, Seal-A-Matic check valve, arc and radius as per symbol. 25 ft=red, 30 ft=green, 35ft=beige	20		45	2.0	25'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY
	Rain Bird PEB-PRS-D 1" Electric Remote Control Valve with Pressure Regulator.	1
	Rain Bird PEB-PRS-D 1-1/2" Electric Remote Control Valve with Pressure Regulator.	2
	Nibco P-619-rw Gasketed 'o' Ring Cast Iron Gate Valve (line Size) in a Carson 1419 Valve Box.	1
	Irrigation Lateral Line: PVC Class 200 3/4"	767
	Irrigation Lateral Line: PVC Class 200 1"	95
	Irrigation Lateral Line: PVC Class 200 1 1/4"	248
	Irrigation Lateral Line: PVC Class 200 1 1/2"	24
	Irrigation Lateral Line: PVC Class 200 2"	14
	Irrigation Lateral Line: PVC Class 200 2 1/2"	256
	Irrigation Mainline: PVC Class 200 3"	732
	Pipe Sleeve: HDPE Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	83
	Pipe Sleeve: SCH 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	10

N

0 7.5 30

Feet



NOTES:
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2. Mainline to be routed along curbline 18"-24" from back of curb.
3. Routing outside of median is shown for clarity purposes.
4. Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same species and adjust trench location to avoid conflicts with utilities.

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CITY OF COCONUT CREEK		
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

IRRIGATION PLAN

SHEET NO. LD-68

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
	Rain Bird 1806-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	1	EST	30	0.6	4'x15'
	Rain Bird 1806-SAM-PRS 10 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	4	180	30	0.8	10'
	Rain Bird 1806-SAM-PRS 12 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	20	180	30	1.3	12'
	Rain Bird 1806-SAM-PRS 15 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	19	180	30	1.9	15'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY		PSI	GPM	RADIUS
	Rain Bird 5004-MPR-SAM Turf Rotor, 4" pop-up, matched precipitation rotor, Seal-A-Matic check valve, arc and radius as per symbol. 25 ft=red, 30 ft=green, 35ft=beige	2		45	1.0	25'
	Rain Bird 5004-MPR-SAM Turf Rotor, 4" pop-up, matched precipitation rotor, Seal-A-Matic check valve, arc and radius as per symbol. 25 ft=red, 30 ft=green, 35ft=beige	1		45	1.4	25'
	Rain Bird 5004-MPR-SAM Turf Rotor, 4" pop-up, matched precipitation rotor, Seal-A-Matic check valve, arc and radius as per symbol. 25 ft=red, 30 ft=green, 35ft=beige	6		45	2.0	25'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY
	Rain Bird PEB-PRS-D 1" Electric Remote Control Valve with Pressure Regulator.	1
	Irrigation Lateral Line: PVC Class 200 3/4"	619
	Irrigation Lateral Line: PVC Class 200 1"	144
	Irrigation Lateral Line: PVC Class 200 1 1/4"	164
	Irrigation Lateral Line: PVC Class 200 1 1/2"	12
	Irrigation Lateral Line: PVC Class 200 2"	48
	Irrigation Lateral Line: PVC Class 200 2 1/2"	3
	Irrigation Mainline: PVC Class 200 3"	449
	Pipe Sleeve: HDPE Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	101

N

0 7.5 30

Feet

R/W

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44+90.00

49+39.00

45 46 47 48 49

BL

EST

13-B
1" 15.3
TRAFFIC RATED VALVE BOX

3" HDPE Sleeve
Directional Bore

SR7/US441

1¼"

3"

6"/2" HDPE Sleeves
Directional Bore

6"/2" HDPE Sleeves
Directional Bore

2"

COMMERCIAL

R/W

EX. HYDRANT

DRIVEWAY

COMMERCIAL

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

IRRIGATION PLAN

SHEET NO. LD-69

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
	Rain Bird 1806-SAM-PRS 15 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	11	180.0	30	1.9	15'
	Rain Bird 1806-SAM-PRS 15 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	2	90.0	30	0.9	15'
	Rain Bird 1812-SAM-PRS 15 Strip Series Shrub Spray 12" popup with check valve, pressure regulator	1	EST	30	0.6	4'x15'
	Rain Bird 1812-SAM-PRS 15 Strip Series Shrub Spray 12" popup with check valve, pressure regulator	3	SST	30	1.2	4'x30'
	Rain Bird 1812-SAM-PRS 8 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	5	180	30	0.5	8'
	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	4	180	30	0.8	10'
	Rain Bird 1812-SAM-PRS 12 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	2	90	30	0.7	12'
	Rain Bird 1806-SAM-PRS-1400 Flood Flood Bubbler 6" popup with check valve and pressure regulator	6	360	30	0.5	1'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY		PSI	GPM	RADIUS
	Rain Bird 3504-PC-SAM Turf Rotor, 4" popup, adjustable and full circle, with check valve	9		45	1.1	21'
	Rain Bird 3504-PC-SAM Turf Rotor, 4" popup, adjustable and full circle, with check valve	7		45	1.5	24'

SYMBOL	MANUFACTURER/MODEL./DESCRIPTION	QUANTITY
	Rain Bird PEB-PRS-D 1" Electric Remote Control Valve with Pressure Regulator.	3
	Rain Bird PEB-PRS-D 1-1/2" Electric Remote Control Valve with Pressure Regulator.	1
	Irrigation Lateral Line: PVC Class 200 3/4"	854
	Irrigation Lateral Line: PVC Class 200 1"	272
	Irrigation Lateral Line: PVC Class 200 1 1/4"	23
	Irrigation Lateral Line: PVC Class 200 2"	114
	Irrigation Lateral Line: PVC Class 200 2 1/2"	6
	Irrigation Mainline: PVC Class 200 3"	250
	Pipe Sleeve: HDPE Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	54
	Pipe Sleeve: SCH 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	7

N

0 7.5 30

Feet

R/W

49+39.00

53+88.00

15

1½" | 60.2

12-B

1" | 11.3

2-E

1" | 3.0

16

1" | 19.9

6"/2" HDPE Sleeves
Directional Bore

6"/2" HDPE Sleeves
Directional Bore

2" SLEEVE

SR7/US441

VACANT LOT

R/W

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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

IRRIGATION PLAN

SHEET NO. LD-70

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RESIDENTIAL

R/W

HILLSBORO BLVD.

RETAIL

R/W

N

0 7.5 30

Feet

53+88.00

54 55 BL 56 57 58

58+37.05

SR7/US441

NO IRRIGATION THIS SHEET

HILLSBORO BLVD.

VACANT LOT

R/W

WALMART

R/W

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

IRRIGATION PLAN

SHEET NO. LD-71

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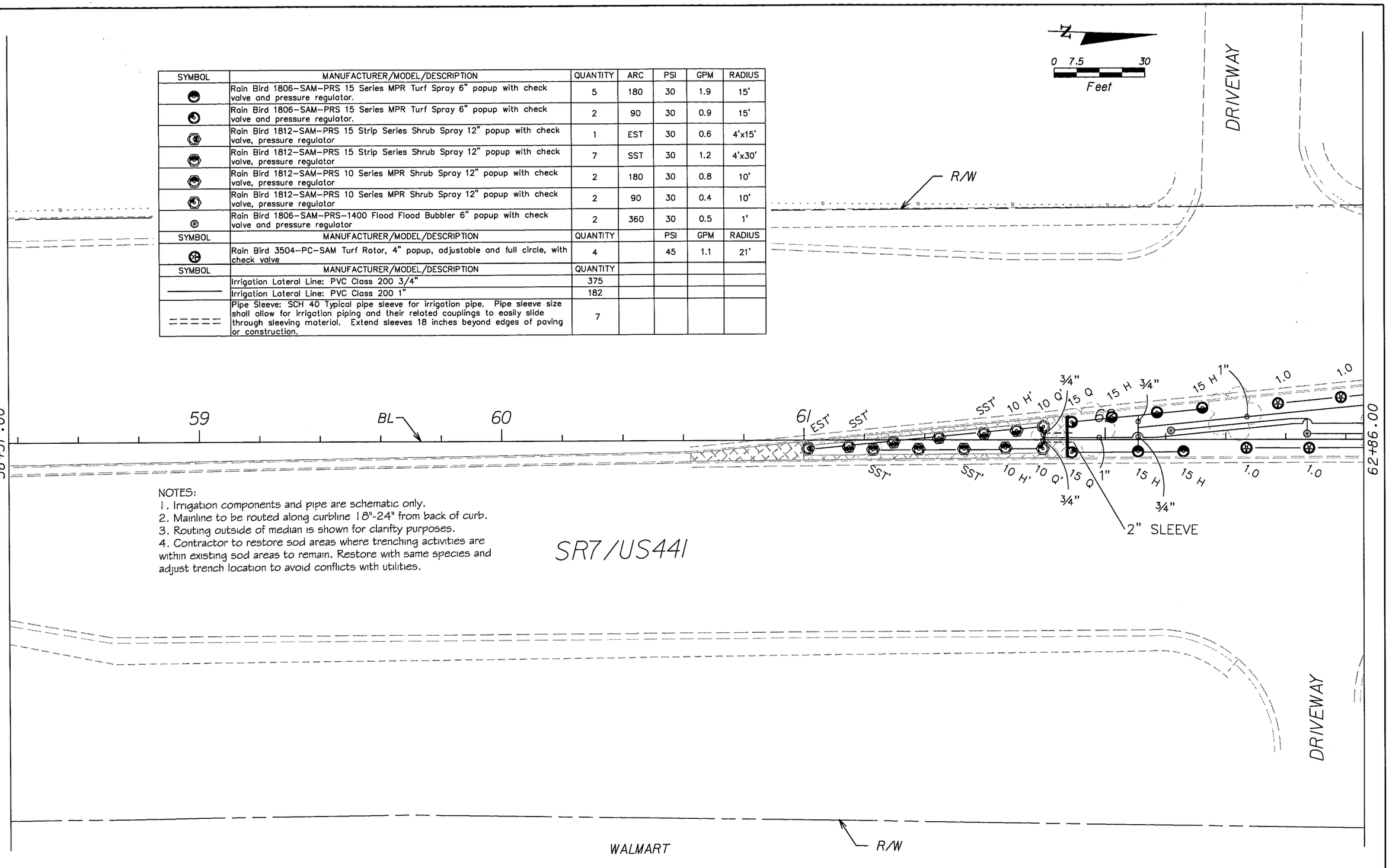
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
	Rain Bird 1806-SAM-PRS 15 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	5	180	30	1.9	15'
	Rain Bird 1806-SAM-PRS 15 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	2	90	30	0.9	15'
	Rain Bird 1812-SAM-PRS 15 Strip Series Shrub Spray 12" popup with check valve, pressure regulator	1	EST	30	0.6	4'x15'
	Rain Bird 1812-SAM-PRS 15 Strip Series Shrub Spray 12" popup with check valve, pressure regulator	7	SST	30	1.2	4'x30'
	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	2	180	30	0.8	10'
	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	2	90	30	0.4	10'
	Rain Bird 1806-SAM-PRS-1400 Flood Flood Bubbler 6" popup with check valve and pressure regulator	2	360	30	0.5	1'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY		PSI	GPM	RADIUS
	Rain Bird 3504-PC-SAM Turf Rotor, 4" popup, adjustable and full circle, with check valve	4		45	1.1	21'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY				
	Irrigation Lateral Line: PVC Class 200 3/4"	375				
	Irrigation Lateral Line: PVC Class 200 1"	182				
	Pipe Sleeve: SCH 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	7				



NOTES:
1. Irrigation components and pipe are schematic only.
2. Mainline to be routed along curbline 18"-24" from back of curb.
3. Routing outside of median is shown for clarifty purposes.
4. Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same species and adjust trench location to avoid conflicts with utilities.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

MILLER LEGG
1800 North Douglas Road · Suite 200 · Pembroke Pines, Florida · 33024
954-436-7000 · Fax: 954-436-8664 · www.millerlegg.com
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CITY OF COCONUT CREEK		
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

IRRIGATION PLAN

SHEET NO. LD-72

nperez 8/6/2008 10:25:06 AM v:\projects\2007\07-00239-s-7us441_landscape_plans\07023900000\landscp\Planld57.dgn

GAS STATION

NOTES:
1. Irrigation components and pipe are schematic only.
2. Mainline to be routed along curbline 18"-24" from back of curb.
3. Routing outside of median is shown for clarity purposes.
4. Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same species and adjust trench location to avoid conflicts with utilities.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
	Rain Bird 1806-SAM-PRS 12 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	30	180	30	1.3	12'
	Rain Bird 1806-SAM-PRS 15 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	9	180	30	1.9	15'
	Rain Bird 1806-SAM-PRS-1400 Flood Flood Bubbler 6" popup with check valve and pressure regulator	18	360	30	0.5	1'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY		PSI	GPM	RADIUS
	Rain Bird 3504-PC-SAM Turf Rotor, 4" popup, adjustable and full circle, with check valve	4		45	1.1	21'
	Rain Bird 3504-PC-SAM Turf Rotor, 4" popup, adjustable and full circle, with check valve	5		45	1.5	24'
	Rain Bird 3504-PC-SAM Turf Rotor, 4" popup, adjustable and full circle, with check valve	7		45	1.9	27'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY				
	Rain Bird PEB-PRS-D 1" Electric Remote Control Valve with Pressure Regulator.	2				
	Rain Bird PEB-PRS-D 1-1/2" Electric Remote Control Valve with Pressure Regulator.	2				
	Irrigation Lateral Line: PVC Class 200 3/4"	1220				
	Irrigation Lateral Line: PVC Class 200 1"	261				
	Irrigation Lateral Line: PVC Class 200 1 1/2"	19				
	Irrigation Lateral Line: PVC Class 200 2 1/2"	266				
	Irrigation Mainline: PVC Class 200 3"	475				
	Pipe Sleeve: HDPE Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	47				

N

0 7.5 30
Feet

OFFICE BUILDING

R/W

19 | 1½" | 68.9

20-A | 1½" | 29.4

17-A | 1" | 11.4

18-A | 1" | 10.0

6"/2" HDPE Sleeves
Directional Bore

62+86.00

67+35.00

63 64 65 66 67

SR7/US441

3"

3"

R/W

R/W

BROWARD COUNTY PARK

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

IRRIGATION PLAN

SHEET NO. LD-73

nperez 8/6/2008 10:25:11 AM v:\projects\2007\07-00239-s-7us441_landscape_plans\07023900000\landscp\Planld58.dgn

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
	Rain Bird 1806-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	1	EST	30	0.6	4'x15'
	Rain Bird 1806-SAM-PRS 10 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	2	180	30	0.8	10'
	Rain Bird 1806-SAM-PRS-1400 Flood Flood Bubbler 6" popup with check valve and pressure regulator	17	360	30	0.5	1'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY		PSI	GPM	RADIUS
	Rain Bird 3504-PC-SAM Turf Rotor, 4" popup, adjustable and full circle, with check valve	38		45	1.1	21'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY				
	Rain Bird PEB-PRS-D 1" Electric Remote Control Valve with Pressure Regulator.	1				
	Rain Bird PEB-PRS-D 1-1/2" Electric Remote Control Valve with Pressure Regulator.	1				
	Nibco P-619-rw Gasketed 'o' Ring Cast Iron Gate Valve (line Size) in a Carson 1419 Valve Box.	2				
	Hoover Pumping Station Model: HCF-10PD-230/3-A,E-12,M,W	1				
	Rain Bird ESP-12SAT Satellite Controller - 12 Stations	1				
	Rain Bird Maxicom Rain Gauge	1				
	Irrigation Lateral Line: PVC Class 200 3/4"	1108				
	Irrigation Lateral Line: PVC Class 200 1"	105				
	Irrigation Lateral Line: PVC Class 200 1 1/4"	18				
	Irrigation Lateral Line: PVC Class 200 2"	110				
	Irrigation Mainline: PVC Class 200 3"	563				
	Pipe Sleeve: HDPE Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	47				

NOTES:
1. Irrigation components and pipe are schematic only.
2. Mainline to be routed along curbline 18"-24" from back of curb.
3. Routing outside of median is shown for clarifty purposes.
4. Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same species and adjust trench location to avoid conflicts with utilities.

N
0 7.5 30
Feet

ELECTRICAL / PHONE CONNECTION:
1. Florida Power and Light and AT&T connection location to be determined.
2. Contractor to provide 208 VAC Phase 3 power, coordination with F.P.L., all necessary wire, conduit and hand hole box to meter source.

RETAIL

R/W

2"/2" Conduits Directional Bore

Hoover Pumping Station "B"

67+35.00

71+84.00

10 H EST

10 H

68 BL 69 70 71

1.0 3/4" 1" 1 1/4" 2"

20-B

1½"	45.6

18-B

1"	9.0

3"

6"/2" HDPE Sleeves Directional Bore

Nibco P-619-RW 3" Gate Valve

BROWARD COUNTY PARK R/W

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

IRRIGATION PLAN

SHEET NO. LD-74

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SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
	Rain Bird 1806-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	7	CST	30	1.2	4'x30'
	Rain Bird 1806-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	2	EST	30	0.6	4'x15'
	Rain Bird 1812-SAM-PRS 15 Strip Series Shrub Spray 12" popup with check valve, pressure regulator	1	EST	30	0.6	4'x15'
	Rain Bird 1812-SAM-PRS 15 Strip Series Shrub Spray 12" popup with check valve, pressure regulator	8	SST	30	1.2	4'x30'
	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	6	180	30	0.8	10'
	Rain Bird 1812-SAM-PRS 12 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	9	180	30	1.3	12'
	Rain Bird 1812-SAM-PRS 12 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	2	90	30	0.7	12'
	Rain Bird 1806-SAM-PRS-1400 Flood Flood Bubbler 6" popup with check valve and pressure regulator	1	360	30	0.5	1'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY		PSI	GPM	RADIUS
	Rain Bird 3504-PC-SAM Turf Rotor, 4" popup, adjustable and full circle, with check valve	5		45	1.1	21'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY				
	Rain Bird PEB-PRS-D 1-1/2" Electric Remote Control Valve with Pressure Regulator.	1				
	Irrigation Lateral Line: PVC Class 200 3/4"	440				
	Irrigation Lateral Line: PVC Class 200 1"	68				
	Irrigation Lateral Line: PVC Class 200 1 1/4"	4				
	Irrigation Lateral Line: PVC Class 200 2"	111				
	Irrigation Mainline: PVC Class 200 3"	460				
	Pipe Sleeve: SCH 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	14				

N

0 7.5 30

Feet

R/W

17-B

1½" 43.8

71+84.00

76+33.00

1.0 2" 12 Q' 12 H' 2" 12 H' ¾" 10 H' 1½" 1¼" 10 H' SST SST EST EST CST CST EST

1.0 1.0 1.0 12 Q' 12 H' 12 H' 10 H' ¾" 1" 10 H' SST BL SST 1" 1" ¾"

4" SLEEVE

3" SLEEVE

SR7/US441

3"

R/W

RESIDENTIAL

NOTES:
1. Irrigation components and pipe are schematic only.
2. Mainline to be routed along curbline 18"-24" from back of curb.
3. Routing outside of median is shown for clarity purposes.
4. Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same species and adjust trench location to avoid conflicts with utilities.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

IRRIGATION PLAN

SHEET NO. LD-75

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SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
	Rain Bird 1806-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	3	EST	30	0.6	4'x15'
	Rain Bird 1806-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	10	SST	30	1.2	4'x30'
	Rain Bird 1812-SAM-PRS 15 Strip Series Shrub Spray 12" popup with check valve, pressure regulator	1	EST	30	0.6	4'x15'
	Rain Bird 1812-SAM-PRS 15 Strip Series Shrub Spray 12" popup with check valve, pressure regulator	6	SST	30	1.2	4'x30'
	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	4	180	30	0.8	10'
	Rain Bird 1806-SAM-PRS-1400 Flood Flood Bubbler 6" popup with check valve and pressure regulator	1	360	30	0.5	1'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY				
	Irrigation Lateral Line: PVC Class 200 3/4"	285				
	Irrigation Lateral Line: PVC Class 200 1"	93				
	Irrigation Mainline: PVC Class 200 3"	449				
	Pipe Sleeve: HDPE Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	81				
	Pipe Sleeve: SCH 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	7				

N

0 7.5 30
Feet

RETAIL

R/W

MECCA BLVD.

EX. DRAINAGE

76+33.00

77

78

BL

EST

SST

79

3/4" SST

1"

EST

2" SLEEVE

80

EST

SST

SST

10 H'

10 H'

3/4"

80+82.00

SST

SST EST

SST'

SST'

10 H'

10 H

SR7/US441

3"

6"/2" HDPE Sleeves
Directional Bore

NW 74 PL

NOTES:
1. Irrigation components and pipe are schematic only.
2. Mainline to be routed along curbline 18"-24" from back of curb.
3. Routing outside of median is shown for clarity purposes.
4. Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same species and adjust trench location to avoid conflicts with utilities.

BROWARD COUNTY PARK

R/W

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

MILLER LEGG
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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

IRRIGATION PLAN

SHEET NO. LD-76

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SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
	Rain Bird 1806-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	2	EST	30	0.6	4'x15'
	Rain Bird 1806-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	8	SST	30	1.2	4'x30'
	Rain Bird 1806-SAM-PRS 12 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	36	180	30	1.3	12'
	Rain Bird 1806-SAM-PRS 12 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	4	90	30	0.7	12'
	Rain Bird 1812-SAM-PRS 15 Strip Series Shrub Spray 12" popup with check valve, pressure regulator	1	EST	30	0.6	4'x15'
	Rain Bird 1812-SAM-PRS 15 Strip Series Shrub Spray 12" popup with check valve, pressure regulator	7	SST	30	1.2	4'x30'
	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	3	180	30	0.8	10'
	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	4	90	30	0.4	10'
	Rain Bird 1806-SAM-PRS-1400 Flood Flood Bubbler 6" popup with check valve and pressure regulator	11	360	30	0.5	1'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY
	Rain Bird PEB-PRS-D 1" Electric Remote Control Valve with Pressure Regulator.	2
	Rain Bird PEB-PRS-D 1-1/2" Electric Remote Control Valve with Pressure Regulator.	1
	Nibco P-619-rw Gasketed 'o' Ring Cast Iron Gate Valve (line Size) in a Carson 1419 Valve Box.	1
	Irrigation Lateral Line: PVC Class 200 3/4"	801
	Irrigation Lateral Line: PVC Class 200 1"	556
	Irrigation Lateral Line: PVC Class 200 1 1/4"	121
	Irrigation Lateral Line: PVC Class 200 2"	8
	Irrigation Lateral Line: PVC Class 200 2 1/2"	11
	Irrigation Mainline: PVC Class 200 3"	531
	Pipe Sleeve: HDPE Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	47
	Pipe Sleeve: SCH 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	50

N

0 7.5 30

Feet

R/W

EX. DRAINAGE

80+82.00

85+31.00

22-A | 1" | 24.0

21 | 1½" | 70.0

18-C | 1" | 6.0

2" SLEEVE

2" SLEEVE

2" SLEEVE

2" SLEEVE

2" SLEEVE

1" 10 Q' 12 Q 12 H 1" 1¼" 1" 1¼" 2" 2½" 1¼" ¾" 1¼" 1¼" 1" 1" 12 H 12 Q 10 Q' 1" 10 H' ¾" 10 H' SST' SST' SST' EST 1" SST ¾" SST 85 SST

81 82 83 84

10 Q' 12 Q ¾" 12 H 1" 1" 1" BL 1¼" 1" 1" ¾" 12 H 12 Q 10 Q' ¾" 10 H' SST' SST' EST EST SST SST

SR7/US441

6"/2" HDPE Sleeves
Directional Bore

3"

Nibco P-619-RW 3" Gate Valve

NOTES:
1. Irrigation components and pipe are schematic only.
2. Mainline to be routed along curbline 18"-24" from back of curb.
3. Routing outside of median is shown for clarifty purposes.
4. Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same species and adjust trench location to avoid conflicts with utilities.

VACANT LAND

R/W

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

IRRIGATION PLAN

SHEET NO. LD-77

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SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY
▬ ▬ ▬	Irrigation Mainline: PVC Class 200 3"	448
═══	Pipe Sleeve: HDPE Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	90

N

0 7.5 30

Feet

LOXAHATCHEE RD

VACANT LAND

EX. DRAINAGE

R/W

R/W

BL

85+31.00

86

EST

87

88

89

89+80.00

SR7/US441

6"/2" HDPE Sleeves
Directional Bore

3"

NW 76 PL

NOTES:
1. Irrigation components and pipe are schematic only.
2. Mainline to be routed along curbline 18"-24" from back of curb.
3. Routing outside of median is shown for clarifty purposes.
4. Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same species and adjust trench location to avoid conflicts with utilities.

RETAIL

R/W

RETAIL

R/W

BILLBOARD
PERMIT BC-263

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CITY OF COCONUT CREEK

ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

IRRIGATION PLAN

SHEET NO.

LD-78

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SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY	ARC	PSI	GPM	RADIUS
	Rain Bird 1806-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	1	EST	30	0.6	4'x15'
	Rain Bird 1806-SAM-PRS 15 Strip Series Turf Spray 6" popup with check valve and pressure regulator.	11	SST	30	1.2	4'x30'
	Rain Bird 1806-SAM-PRS 10 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	1	180	30	0.8	10'
	Rain Bird 1806-SAM-PRS 10 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	2	90	30	0.4	10'
	Rain Bird 1806-SAM-PRS 15 Series MPR Turf Spray 6" popup with check valve and pressure regulator.	2	90	30	0.9	15'
	Rain Bird 1812-SAM-PRS 8 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	6	180	30	0.5	8'
	Rain Bird 1812-SAM-PRS 8 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	2	90	30	0.3	8'
	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	9	180	30	0.8	10'
	Rain Bird 1812-SAM-PRS 10 Series MPR Shrub Spray 12" popup with check valve, pressure regulator	6	90	30	0.4	10'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QUANTITY				
	Rain Bird PEB-PRS-D 1" Electric Remote Control Valve with Pressure Regulator.	2				
	Irrigation Lateral Line: PVC Class 200 3/4"	580				
	Irrigation Lateral Line: PVC Class 200 1"	63				
	Irrigation Lateral Line: PVC Class 200 1 1/4"	194				
	Irrigation Lateral Line: PVC Class 200 1 1/2"	4				
	Irrigation Lateral Line: PVC Class 200 2"	47				
	Irrigation Mainline: PVC Class 200 3"	420				
	Pipe Sleeve: HDPE Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	44				
	Pipe Sleeve: SCH 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	20				

NOTES:
1. Irrigation components and pipe are schematic only.
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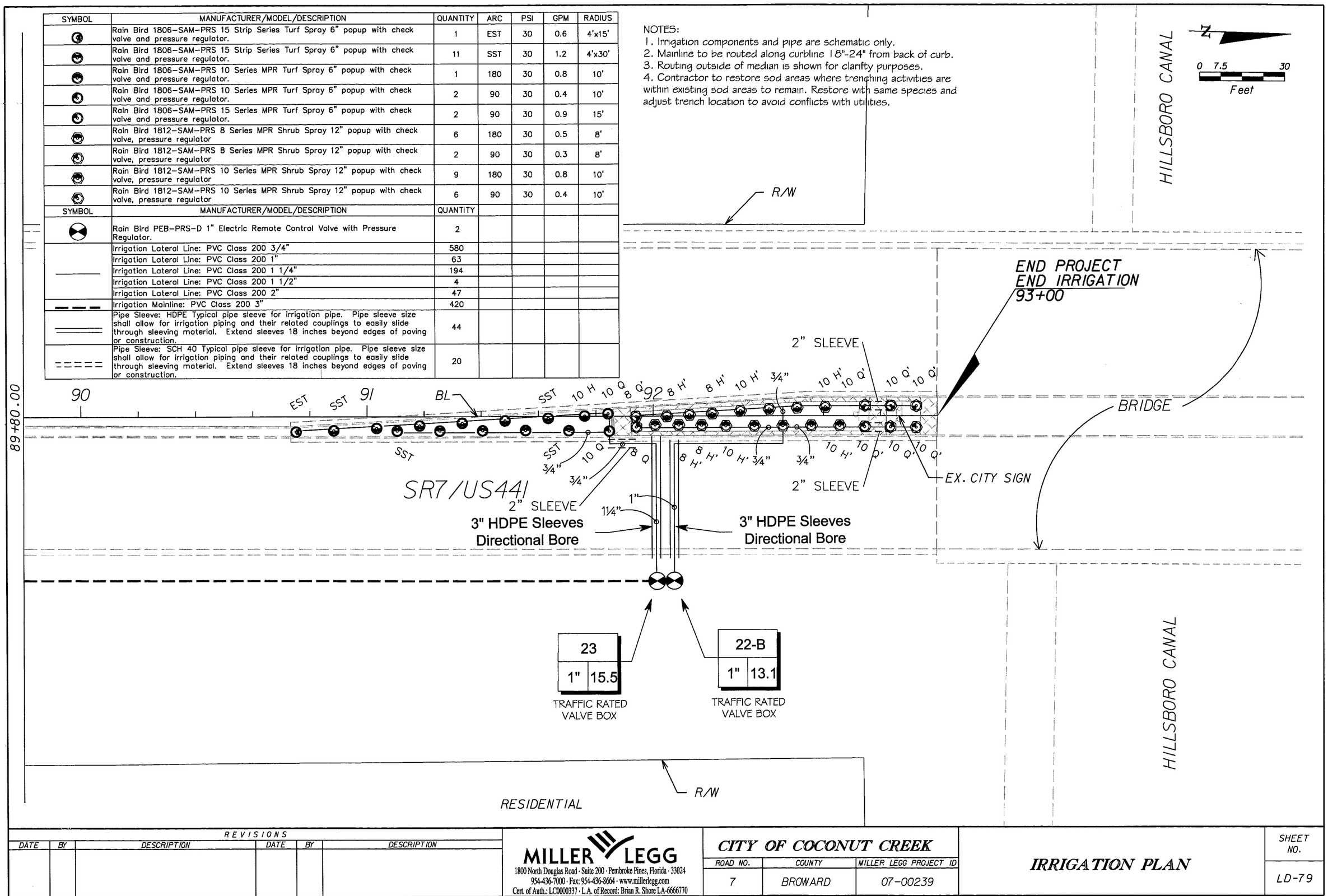
3. Routing outside of median is shown for clarity purposes.
4. Contractor to restore sod areas where trenching activities are within existing sod areas to remain. Restore with same species and adjust trench location to avoid conflicts with utilities.



REVISIONS					
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CITY OF COCONUT CREEK		
ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
7	BROWARD	07-00239

IRRIGATION PLAN

SHEET NO. LD-79