

NON-VEHICULAR SLEEVING SCHEDULE	
PIPE SIZE	SLEEVING PIPE SIZE
3/4"	2"
1"	2"
1-1/4"	3"
1-1/2"	3"
2"	4"
3"	6"
4"	8"
6"	12"
8"	16"

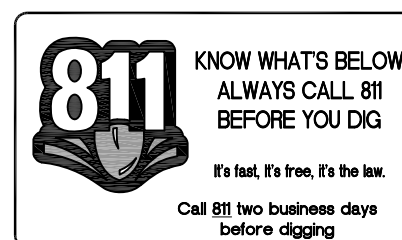
SLEEVING NOTES:

1. VEHICULAR CROSSINGS ARE SHOWN AND SIZED ON THE PLANS.
2. NON-VEHICULAR SLEEVES ARE SHOWN BUT NOT SIZED.
3. SIZE ALL NON-VEHICULAR SLEEVES ACCORDING TO THE ADJACENT CHART.
4. MAINLINE CROSSINGS MUST ALSO INCLUDE A 2" CONDUIT SLEEVE FOR CONTROL WIRE.
5. CONTRACTOR TO DUCT TAPE END OF SLEEVES TO KEEP SLEEVE CLEAN AND CLEAR.
6. CONTRACTOR TO STAKE END OF EACH SLEEVE ABOVE GROUND AND PAINT FLUORESCENT ORANGE. LABEL EACH STAKE WITH THE WORD "SLEEVE" AND ITS SIZE.
7. CONTRACTOR TO PROVIDE A 3 FT MINIMUM DEPTH OF COVERAGE OVER ALL SLEEVES.

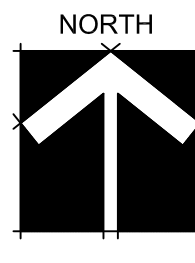
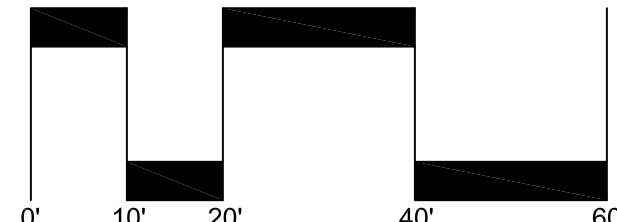
SLEEVE LABEL:
12"/6"/2" SLEEVES MEANS TO INSTALL ONE 12", ONE 6" AND ONE 2" SLEEVE.

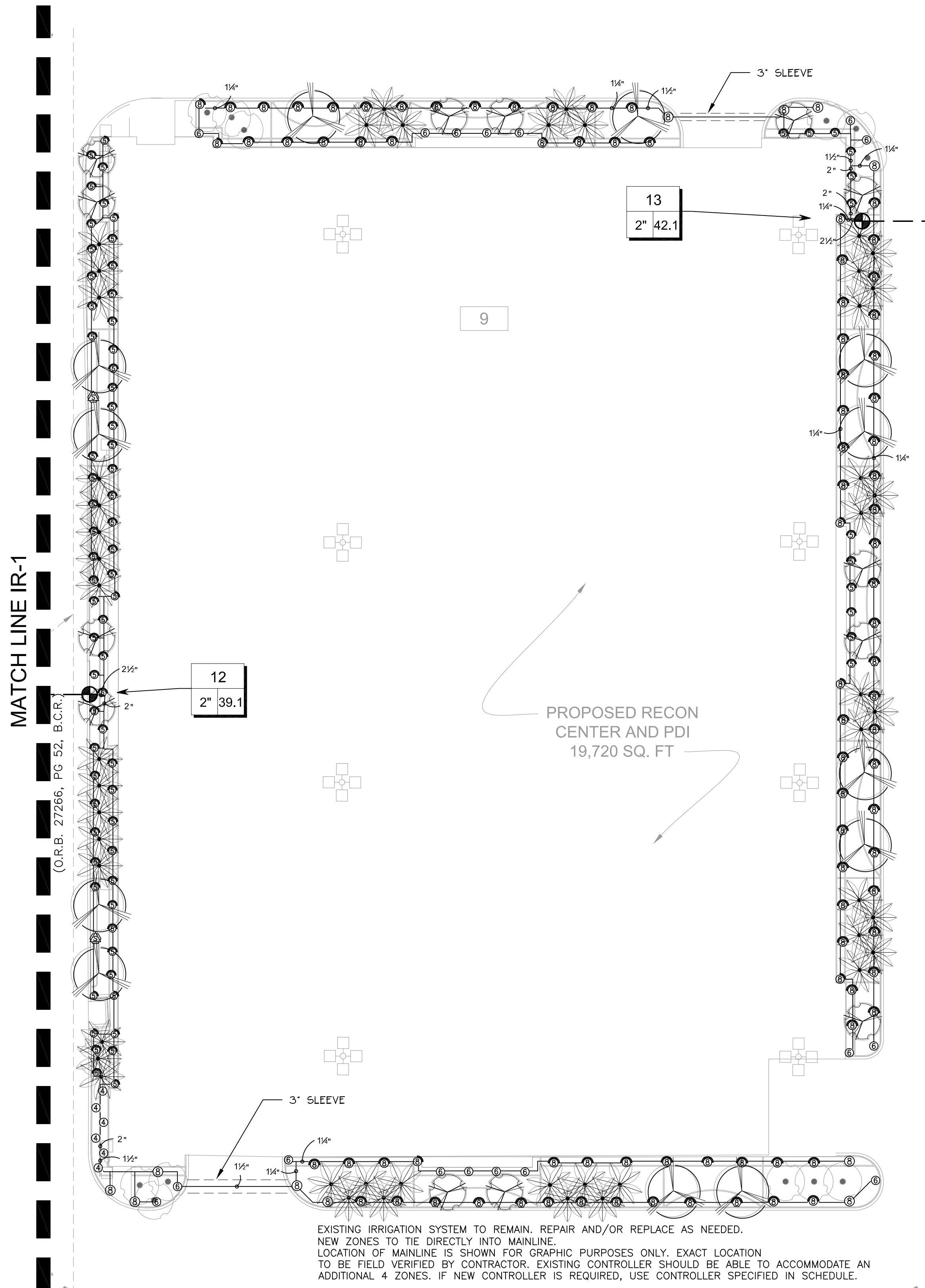
NOTES:

1. ALL SOD AND LANDSCAPE RECEIVE 100% COVERAGE FROM AN AUTOMATIC IRRIGATION SYSTEM USING AN APPROVED WATER SOURCE. MODIFY EXISTING IRRIGATION SYSTEM FOR CURRENT PROPOSED PLAN CHANGES. CONTRACTOR TO FIELD VERIFY EXISTING CAN BE MODIFIED PER PROPOSED PLANTING.
2. IRRIGATION SYSTEM SHALL ALSO BE EQUIPPED WITH RAIN SENSOR.
3. EXISTING IRRIGATION SYSTEM TO REMAIN. REPAIR AND/OR REPLACE AS NEEDED. NEW ZONES TO TIE DIRECTLY INTO MAINLINE. EXACT LOCATION TO BE FIELD VERIFIED BY CONTRACTOR.
4. EXISTING CONTROLLER SHOULD BE ABLE TO ACCOMMODATE AN ADDITIONAL 13 ZONES. IF NEW CONTROLLER IS REQUIRED, USE CONTROLLER SPECIFIED IN SCHEDULE.
5. (1) RAINBIRD 5 STREAM F40 BUBBLERS SHALL BE PLACED NEXT TO ALL NEWLY PLANTED TREES AND ROYAL PALMS, EVEN IF NOT SHOWN ON IRRIGATION PLANS. (REFER TO LANDSCAPE PLAN FOR LOCATION OF ALL PROPOSED TREES.) 5 STREAM BUBBLERS DO NOT REQUIRE SEPARATE ZONE AND CAN BE CONNECTED TO LATERAL LINE OF CLOSEST EXISTING VALVE, PREFERABLY A SHRUB ZONE.



SCALE: 1"=20'-00"





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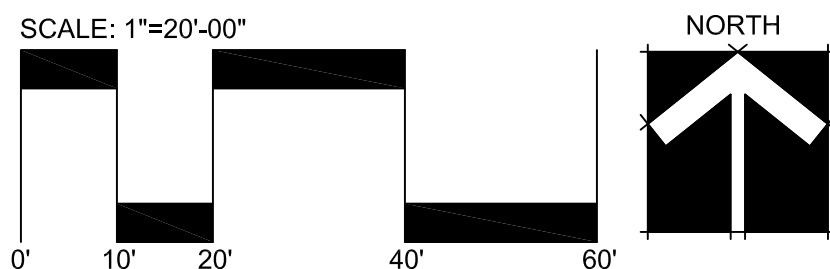
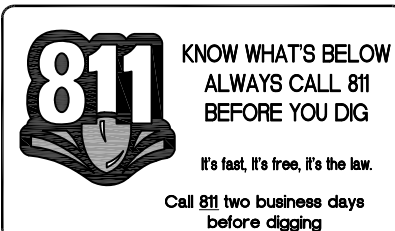
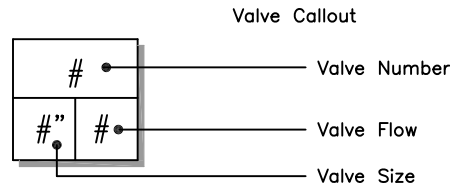
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IRRIGATION SCHEDULE			
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
	RAIN BIRD 1806-PRS 15 STRIP SERIES TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, SIDE AND BOTTOM INLET, 1/2" NPT FEMALE THREADED INLET, PRESSURE REGULATING.	16	30
	RAIN BIRD 1806-PRS 8 SERIES MPR TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, SIDE AND BOTTOM INLET, 1/2" NPT FEMALE THREADED INLET, PRESSURE REGULATING.	3	30
	RAIN BIRD 1806-PRS 10 SERIES MPR TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, SIDE AND BOTTOM INLET, 1/2" NPT FEMALE THREADED INLET, PRESSURE REGULATING.	4	30
	RAIN BIRD 1806-PRS 12 SERIES MPR TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, SIDE AND BOTTOM INLET, 1/2" NPT FEMALE THREADED INLET, PRESSURE REGULATING.	19	30
	RAIN BIRD 1806-PRS 15 SERIES MPR TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, SIDE AND BOTTOM INLET, 1/2" NPT FEMALE THREADED INLET, PRESSURE REGULATING.	2	30
	RAIN BIRD 1806-PRS ADJ TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, SIDE AND BOTTOM INLET, 1/2" NPT FEMALE THREADED INLET, PRESSURE REGULATING.	136	30
	RAIN BIRD 1806-PRS ADJ TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, SIDE AND BOTTOM INLET, 1/2" NPT FEMALE THREADED INLET, PRESSURE REGULATING.	21	30
	RAIN BIRD 1800-PA-8S-PRS SQ SERIES SHRUB SPRAY ON FIXED RISER WITH THE PA-8S-PRS PRESSURE REGULATING SHRUB ADAPTER, USE WITH 1/2" MPT THREADED RISERS.	2	30
	RAIN BIRD 1800-PA-8S-PRS 15 STRIP SERIES SHRUB SPRAY ON FIXED RISER WITH THE PA-8S-PRS PRESSURE REGULATING SHRUB ADAPTER, USE WITH 1/2" MPT THREADED RISERS.	116	30
	RAIN BIRD 1800-PA-8S-PRS 5 SERIES MPR SHRUB SPRAY ON FIXED RISER WITH THE PA-8S-PRS PRESSURE REGULATING SHRUB ADAPTER, USE WITH 1/2" MPT THREADED RISERS.	76	30
	RAIN BIRD 1800-PA-8S-PRS 8 SERIES MPR SHRUB SPRAY ON FIXED RISER WITH THE PA-8S-PRS PRESSURE REGULATING SHRUB ADAPTER, USE WITH 1/2" MPT THREADED RISERS.	69	30
	RAIN BIRD 1800-PA-8S-PRS 15 SERIES MPR SHRUB SPRAY ON FIXED RISER WITH THE PA-8S-PRS PRESSURE REGULATING SHRUB ADAPTER, USE WITH 1/2" MPT THREADED RISERS.	5	30
	RAIN BIRD 1800-PA-8S-PRS ADJ SHRUB SPRAY ON FIXED RISER WITH THE PA-8S-PRS PRESSURE REGULATING SHRUB ADAPTER, USE WITH 1/2" MPT THREADED RISERS.	61	30
	RAIN BIRD 1800-PA-8S-PRS ADJ SHRUB SPRAY ON FIXED RISER WITH THE PA-8S-PRS PRESSURE REGULATING SHRUB ADAPTER, USE WITH 1/2" MPT THREADED RISERS.	57	30
	RAIN BIRD 1812-PRS 15 STRIP SERIES SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, SIDE AND BOTTOM INLET, 1/2" NPT FEMALE THREADED INLET, WITH PRESSURE REGULATING DEVICE.	2	30
	RAIN BIRD 1812-PRS 8 SERIES MPR SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, SIDE AND BOTTOM INLET, 1/2" NPT FEMALE THREADED INLET, WITH PRESSURE REGULATING DEVICE.	21	30
	RAIN BIRD 1812-PRS ADJ SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, SIDE AND BOTTOM INLET, 1/2" NPT FEMALE THREADED INLET, WITH PRESSURE REGULATING DEVICE.	3	30
	RAIN BIRD 1812-5 SERIES STREAM W/ PCS 5CST-020 STREAM BUBBLER 12.0" POPUP WITH PRESSURE COMPENSATING SCREEN.	63	30
	RAIN BIRD PEB 1" 1-1/2", 2" PLASTIC INDUSTRIAL VALVES, LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.	13	
	EXISTING	1	
	RAIN BIRD ESP8LXME WITH (03) ESPLXMSM12 44 STATION COMMERCIAL CONTROLLER, MOUNTED ON A PLASTIC WALL MOUNT, WITHOUT FLOW SENSING.	1	
	RAIN BIRD RSD-BEX RAIN SENSOR, WITH METAL LATCHING BRACKET, EXTENSION WIRE.	1	
	WATER METER 1-1/2" IRRIGATION METER FROM EXISTING SYSTEM TO BE USED	1	
	IRRIGATION LATERAL LINE: CPVC SCHEDULE 40	7,158 L.F.	
	IRRIGATION MAINLINE: PVC SCHEDULE 40	2,680 L.F.	
	PIPE SLEEVE: BLUE LOCK AND PVC CLASS 200 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.	413.5 L.F.	



PARKING GARAGE AND CAR WASH BUILDING FOR

JM LEXUS OF MARGATE

5350 W. SAMPLE ROAD
MARGATE, FLORIDA

Sheet Description

IRRIGATION PLAN

Release Date
7-10-17

Project Number
1715b

Drawing Number

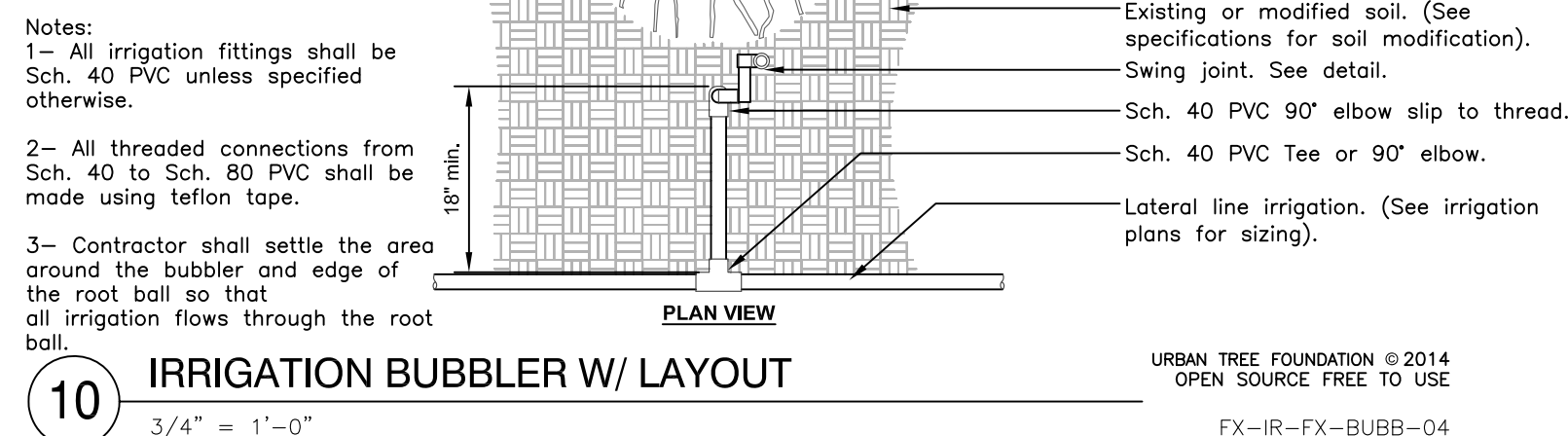
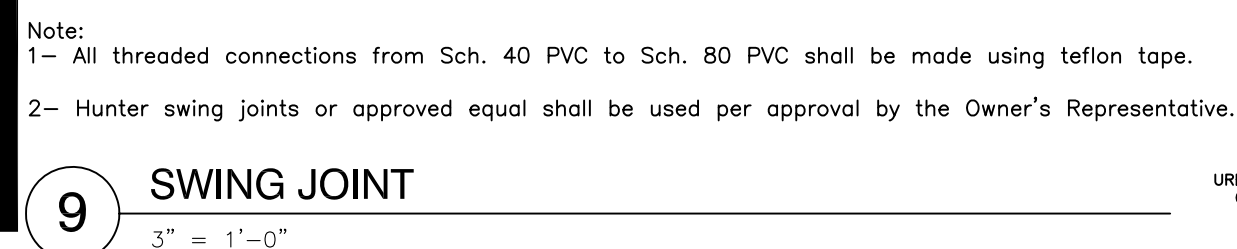
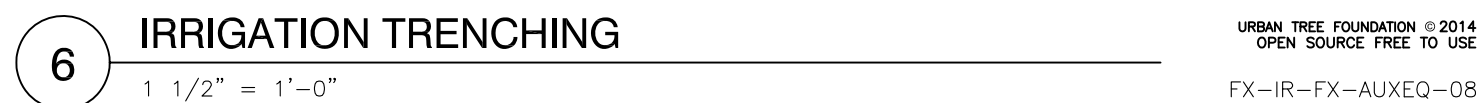
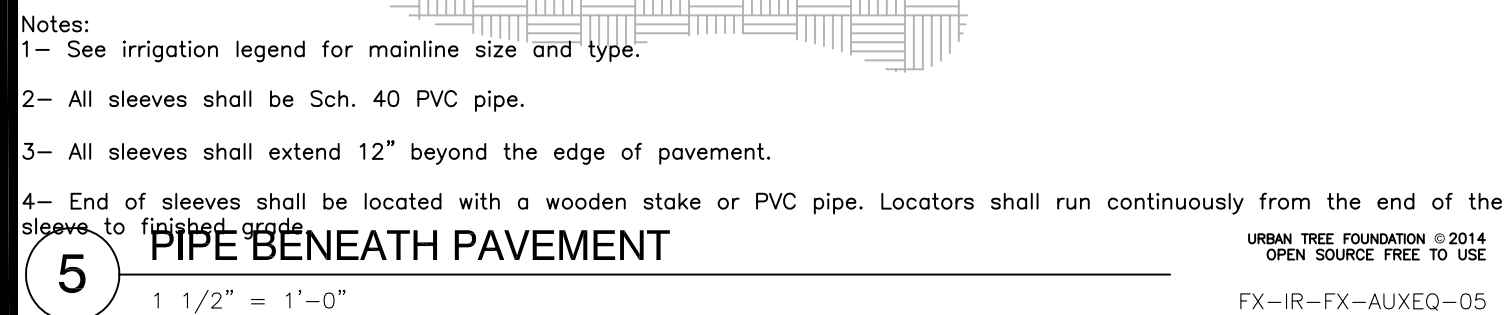
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Sheet 2 of 4

Revision Dates



AAL
Architectural Alliance Landscape
612 SW 4th Ave., Fort Lauderdale, FL 33315 LCC000237
TEL. 954-764-8858
EMAIL: HJohnson@archall.net



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 wire 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 ¾" piece of PVC pipe to make a coil using 30 linear inches of wire. Make electrical connections with 3MDBY/R 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:
#14 white for common
#14 spare black common
#14 individual color coded hot wire
#14 spare yellow hot wire

Spare wires
Leaving each controller, run four spare wires in both directions (eight spare wires total). Install as 1 common spare (2 total) and 3 hot wires (6 total). Loop these wires into each RCV along their path and terminate in the last valve box controlled by the wires respective controller. The loop into each valve box shall extend up into the valve box a minimum of 8" and be readily accessible by opening the valve box lid. These wires must all be color coded and numbered as required in the plans.

Controller and pump station Control Panel grounding - Contractor to utilize 4"x8"x⅝" copper grounding plates, ⅝"x10" copper clad grounding rods, 'One Strike' CAD wells at all connection points, #6 insulated 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/pump location, and test results. Each controller/pump shall be so grounded an tested. Each component must have its own separate ground grid, unless they are siting side by side, in which case up to two controllers can share a common grounding grid.

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 ensure 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 ¾" 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 2" above maintained height of plants and shall be installed a minimum of 6" 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 utilize reuse water; in this case the risers shall be purple PVC and shall not be painted.

Locate valves prior to excavation. Ensure 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 POC operates first and the closest to the POC operates last. The closest valve to the POC 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.

Using an electric branding iron, brand the valve ID letter/number on the lid of each valve box. This brand must be 2"-3" tall and easily legible.

EQUIPMENT

All pop-up heads and shrub risers shall be pressure compensating. All pop-up heads shall be mounted on flex-type swing joints. All rotors shall be installed with PVC triple joints unless otherwise detailed.

All sprinkler equipment, not otherwise detailed or specified on these plans, 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 same size as 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

Solvent Wld Pipe: Cut all pipe square and deburr. Clean pipe an 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 on the pipe. Insert the pipe into the fitting. Insure that the pipe is inserted to the bottom of the fitting, then urn the pipe a ¼ 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 curve 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 hous prior to filling with water.

BACK FILL

The back fill 6" below, 6" above, and around all piping shall be clean sand and anything beyond that in the trench can be of native material but nothing larger than 2" in diameter. All piping and excavations shall be backfilled and compacted to a density of 95% modified Proctor, or greater.

Main line pipe depth measure to the top of pipe shall be:
24" minimum for ¾" - 2½" PVC with a 30" minimum at vehicular crossings;
30" minimum for 3" & 4" PVC with a 36" minimum at vehicular crossings.

Lateral line depths measure to top of pipe shall be:
18" minimum for ¾" - 3" PVC with a 30" minimum at vehicular crossings;
24" minimum for 4" PVC and above with a 30" 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 valves, flush all mainlines for a minimum of 10 minutes or until lines are completely clean of debris, whichever is longer.

Prior to the placement of heads, flush all lateral 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 walks, walls and paving.

TESTING

Schedule testing with Owner's Representative a minimum of three (3) days in advance of testing.

Mainline: Remove all remote control valves and cap using a threaded cap on SCH 80 nipple. Hose bibs and gate valves shall not be tested against during a pressure test unless authorized by written permission from the owner. 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.

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.

Lateral lines: The lateral lines must be fully filled to operational pressure and visually checked for leaks. Any leaks detected must be repaired.

Operational Testing - 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 the system works automatically from the controller. This demonstration requires each zone to be 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.

Upon completion of the operational test, 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 fine sandy soils, it is possible no puddling will occur. If this is experienced, then theoretical calculations for run times will be required for controller programming.

SUBMITTALS

Pre-Construction: Deliver five (5) copies of submittals to Owner's Representative within ten (10) working days from date of Notice to Proceed. Furnish information in 3-ring binder with table of contents and index sheet. Index sections for different components and label with specification section number and name of component. Furnish submittals for components on material list. Indicated which items are being supplied on catalog cut sheets when multiple items are shown on one sheet. Incomplete submittals will be returned without review. in lieu of hardcopies, an electronic package in PDF format can be submitted.

After project completion:
As a condition of final acceptance, the irrigation contractor shall provide the owner with:

1. Irrigation As-builts - shall be provided accurately locating all mainlines, sleeves, remote control valves, gate valves, independent wire runs, wire splice boxes, controllers, high voltage supply sources/conduit path, control mechanisms, sensors, wells and water source connections. All mainline and independent runs of wire shall be located every 30' for straight runs and at every change of direction. Sleeves will be located at end points and every 20' of length. All underground items shall include depth in inch format.

2. 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 the controller door. The reduction shall be hermetically sealed inside two 2ml pieces of clear plastic.

3. Grounding Certification - Provide ground certification results for each controller and pump panel grounding grid installed. This must be on a licensed electrician letter head indication location tested (using IR plan symbols), date, time, test method and testing results.

INSPECTIONS AND COORDINATION MEETINGS REQUIRED - Contractor is required to schedule, perform, and attend the following, and demonstrate to the owner and/or owners representative to their satisfaction, as follows:

- 1.Pre-construction meeting - Designer and contractor to review entire install process and schedule with owner/general contractor.
2. Mainline installation inspection(s) - All mainline must be inspected for proper pipe, fittings, depth of coverage, backfill and installation method.
3. Mainline pressure test - All mainline shall be pressure tested according to this design's requirements.
4. Flow meter calibration - All flow meters must be calibrated. Provide certified calibration report for all flow meters.
5. Coverage and operational test
6. Final inspection
7. Punch list inspection

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.All above inspections are completed, documented, approved by owner.
- 2.Completion and acceptance of 'as-built' drawings.
3. Acceptance of required controller charts and placement inside controllers.
4. All other submittals have been made to the satisfaction of the owner.

GUARANTEE: The irrigation system shall be guaranteed for a minimum of one calendar year from the time of final

acceptance.

MINIMUM RECOMMENDED IRRIGATION MAINTENANCE PROCEDURES

1. Every irrigation zone should be checked monthly and written reports generated describing the date(s) each zone was inspected, problems identified, date problems repaired, and a list of materials used in the repair. At minimum, these inspections should include the following tasks:

A. Turn on each zone from the controller to verify automatic operation.

B. Check schedules to ensure they are appropriate for the season, plant and soil type, and irrigation method. Consult an I.A. certified auditor for methods used in determining proper irrigation scheduling requirements.

C. Check remote control valve to ensure proper setting, if present.

D. Check setting on pressure regulator it verify proper setting, if present.

E.Check flow control and adjust as needed; ensure valve closure within 10-15 seconds after deactivation by controller.

F. Check for leaks - mainline, lateral lines, valves, heads, etc.

- G. Check all heads as follows:
1. Proper set height (top of sprinkler is 1" below mow height)
 2. Verify head pop-up height - 6" in turf, 12" in groundcover, and riser in shrub beds
 3. Check wiper seal for leaks - if leaking , clean head and re-inspect.
 4. If still leaking, replace head with the appropriate head with pressure regulator and built-in check valve.
 5. All nozzles checked for proper pattern, clogging, leaks, correct make & model, etc. - replace as

- needed
6. Check for proper alignment - perfectly vertical; coverage area is correct;p minimize over spray onto hardscapes
 7. Riser height raised/lowered to accommodate plant growth patterns and ensure proper coverage.
 8. Verify pop-ups retract after operation. If not, repair/replace as needed.

H. Check controller/C.C.U. grounds for resistance (10 ohms or less) once per year. Submit written reports.

I. check rain shut-off device monthly and clean/repair/replace as needed.

J. Inspect all valve boxes to ensure they are in good condition, lids are in place and locked.

K. Inspect backflow devices by utilizing a properly licensed backflow inspector. This should be done annually, at minimum.

L. Inspect all filters monthly and clean/repair/replace as needed.

M. Check pump stations fpr proper operation, pressures, filtration, settings, etc. - refer to pump station operations manual.

N. Check and clean intake screens on all suction lines quarterly, at minimum. Clean and/or repair, as needed.

O. Winterize, if applicable, as weather in your area dictates. follow manufacturer recommendations and blow out all lines and equipment using compressed air. Perform seasonal startup of system as per manufacturer recommendations.

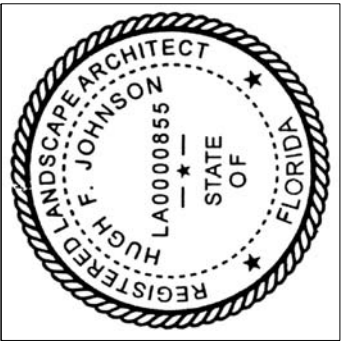
P. Conduct additional inspections, maintenance tasks, etc. that are particular for your site.

SOIL MOISTURE SENSOR (When applicable)

1. Place all soil moisture sensor wiring in 1" SCH 40 PVC conduit

2. Soil moisture sensor should be placed in the middle of a spray or drip area as per manufacturer's recommendations.

3. Controller shall be set to the Florida Automated Weather Network's urban scheduler settings using the SMS as a moisture cut off device (like a rain switch) per manufacturer directions.



Revision Dates

PARKING GARAGE AND CAR WASH BUILDING FOR

JM LEXUS OF MARGATE

5350 W. SAMPLE ROAD
MARGATE, FLORIDA

Sheet Description
IRRIGATION NOTES
Release Date 7-10-17
Project Number 1715b
Drawing Number IR-4 Sheet 4 of 4