

1.01 SECTION INCLUDES
A. Installation of underground, automatically controlled lawn and shrub bed irrigation system, including electrical connections, connections to water mains, and necessary accessories.

1.02 RELATED SECTIONS
A. Section 02860 - Water Distribution Systems
B. Section 02870 - Landscape Paving

1.03 REFERENCE STANDARDS
A. American Society for Testing and Materials (ASTM) latest edition
B. 2236 Polyethylene (PE) Plastic Pipe (SDR-11) Based on Controlled Inside Diameter

1.04 QUALITY ASSURANCE
A. Piping installation shall be performed in accordance with Section 02860.
B. Following installation, make final adjustments to lawn irrigation system prior to Owner's final inspection.

1.05 SUBMITTALS
A. Submit plans for items specified herein. Provide 5 copies of each to Owner for review.

1.06 PROJECT RECORD DOCUMENTS
A. As-built drawings: 2 sets, noting exact locations of elements and changes to Construction Drawings.

1.07 OPERATIONAL INSTRUCTIONS
A. Provide instructions including mounting details for control valves.

1.08 QUALIFICATIONS
A. Minimum of 2 consecutive years experience in area of project and having installed other jobs of similar size and scope.

1.09 PRODUCTS
A. Acceptable manufacturers shall include:
1. Rain Bird Soles, Inc. - Turf Division

1.10 AUTOMATIC CONTROLLER
A. Location and installation shall be as shown on Construction Drawings and approved by Owner prior to installation.

1.11 FITTINGS
A. Refer to architectural building plans for fencing attached to building.

1.12 RELATED SECTIONS
A. Section 03300 - Cast-In-Place Concrete (See Architectural/Building Specifications)

1.13 REFERENCE STANDARDS
A. American Society for Testing and Materials (ASTM) latest edition
B. 118 Zinc-Coated (Galvanized) Steel Welded Wire Fence

1.14 QUALITY ASSURANCE
A. Condition of new plant materials is responsibility of Contractor and shall be approved by Owner. Owner reserves right to reject materials not meeting specifications.

1.15 SUBMITTALS
A. Measurements are to be taken from ground level to average height of shrub and not to longest branch.

1.16 REFERENCE STANDARDS
A. American Society for Testing and Materials (ASTM) latest edition
B. 118 Zinc-Coated (Galvanized) Steel Welded Wire Fence

1.17 MATERIALS
A. Fabric:
1. No. 9 gauge, 0.148" ± 0.005", finished size galvanized steel wires, 2-in. mesh, top and bottom selvages twisted and barbed.

1.18 RELATED SECTIONS
A. Section 02870 - Landscape Paving

1.19 ACCEPTABLE MANUFACTURERS
A. Submit to compliance with requirements, provide products of one of the following:
1. Axiom, The Toro Company, Inc.

1.20 MATERIALS
A. Fabric:
1. No. 9 gauge, 0.148" ± 0.005", finished size galvanized steel wires, 2-in. mesh, top and bottom selvages twisted and barbed.

1.21 POINT BENEATH
A. Installation of all lines: Automatic drain valves shall be Rain Bird Model Number 16A, TPA, or approved equal.

1.22 AUTOMATIC CONTROLLER
A. Controller shall have wet mount, weatherproof, lockable cabinet with internal transformer. Acceptable Manufacturers:
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1.23 CONTROL WIRE
A. Number 14 size minimum copper wire, 1/4" approved for underground direct burial.

1.24 BACKFLOW PREVENTION
A. Comply with requirements and codes of local governing authority regarding backflow prevention.

1.25 BANNAL SENSOR
A. Provide rainfall sensor to cancel operation of controller during substantial rainfall. Sensor shall be by some manufacturer as controller provided and as follows:

1.26 METER
A. Meter shall be by some manufacturer as controller provided and as follows:

1.27 PREPARATION
A. Pressure/Flow Test: Conduct tests at beginning top or meter and provide written results to Owner following information:

B. Layout of sprinkler heads: Stake locations of each sprinkler in accordance with Construction Drawings. If discrepancies in Construction Drawings appear, notify Owner of discrepancies.

C. Prior to installation, receive approval from Owner to proceed with construction along with proposed revisions required due to test results or discrepancies on Construction Drawings.

3.03 EXCAVATION
A. Excavate trench to proper depth.
B. Minimum trench width shall be 3"-1/2"-in.

3.04 INSTALLATION
A. Comply with recommended procedures and instructions of fencing manufacturer. Provide secure, aligned installation with line posts spaced at 10'-0" o.c. maximum.

3.05 CONCRETE MIXING
A. Concrete shall be mixed with minimum 28-day compressive strength of 2,500 psi; 1-in. maximum size aggregate, maximum 3-in. slump, and 2 - 4 percent entrained air.

3.06 FINISHES
A. Finish concrete with broom finish.

3.07 SLEEVING
A. Provide sleeves for both piping and control wiring where either passes under paved surfaces:

3.08 PIPING INSTALLATION
A. Do not use pipe or pipeable material or blocking, or when in opinion of Owner conditions are unsuitable.

3.09 ELECTRICAL CONNECTIONS AND CONTROL WIRE
A. Shall be in a strict accordance with latest edition of National Electrical Code and local electrical codes.

3.10 BACKFLOW PREVENTION
A. Comply with local codes for installation of backflow preventer. In absence of local codes, minimum requirements shall be in accordance with manufacturer's written instructions.

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RESOURCE CONSULTING CIVIL ENGINEERING
6700 Jefferson Highway - Resource Suite 404
Baton Rouge, Louisiana 70805
Resourceconsulting@hotmail.com
Tel: (225) 761-9509; Fax (225) 766-6672

RC SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR VALIDITY OF INFORMATION THAT IT OBTAINS FROM THE CLIENT OR ITS AGENTS IN CONNECTION WITH THE PERFORMANCE OF THE SERVICES FOR THE CLIENT. RC SHALL FULLY RELY ON SAID INFORMATION AND CLIENT SHALL HOLD HARMLESS INDEMNIFY AND DEFEND RC FOR RELIANCE ON THE INFORMATION AND/OR SERVICES PROVIDED BY OTHERS BY USE OF THESE DESIGN CLIENT ENTITLED TO THE FULL ACCURACY AND COMPLETENESS OF THE INFORMATION PROVIDED BY CLIENT FOR USE BY RC ON EACH PROJECT. CLIENT UNDERSTANDS AND ACKNOWLEDGES THE UNCERTAINTY CONNECTED WITH CONSULTING SERVICES AND WARRANTS, EXPRESS OR IMPLIED, THAT THE INFORMATION PROVIDED IS CORRECT AND COMPLETE.

RC SHALL FURNISH ONLY ENGINEERING SERVICES RELATED TO DESIGNING THE ABOVE PROJECT AND WILL PROVIDE THE SERVICES IN CONSIDERATION OF OTHER GOOD AND VALUABLE CONSIDERATIONS, WHEN RC IS VERBALLY AUTHORIZED BY CLIENT TO PROCEED WITH SUCH DESIGNING. RC SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR VALIDITY OF INFORMATION THAT IT OBTAINS FROM THE CLIENT OR ITS AGENTS IN CONNECTION WITH THE PERFORMANCE OF THE SERVICES FOR THE CLIENT. RC SHALL FULLY RELY ON SAID INFORMATION AND CLIENT SHALL HOLD HARMLESS INDEMNIFY AND DEFEND RC FOR RELIANCE ON THE INFORMATION AND/OR SERVICES PROVIDED BY OTHERS BY USE OF THESE DESIGN CLIENT ENTITLED TO THE FULL ACCURACY AND COMPLETENESS OF THE INFORMATION PROVIDED BY CLIENT FOR USE BY RC ON EACH PROJECT.

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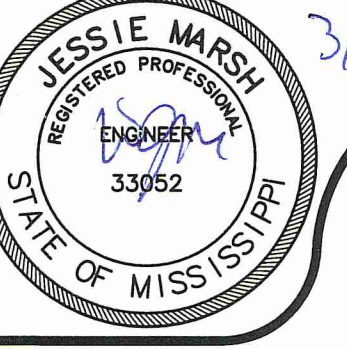
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THIS DRAWING IS NOT VALID WITHOUT AN ORIGINAL BLUE INK SIGNATURE AND ORIGINAL HANDWRITTEN DATE OF A LICENSED PROFESSIONAL ENGINEER.

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