

TOWN OF TRUMBULL
REQUEST FOR PROPOSAL (RFP)
TRUMBULL PARKS & RECREATION
REPLACEMENT OF AUTOMATED IRRIGATION SYSTEM AT UNITY PARK, WHITE PLAINS ROAD

GENERAL INSTRUCTIONS

RFP NUMBER: 6144

DUE: SEPTEMBER 24, 2015 2:00 PM

The Town of Trumbull, Connecticut (hereinafter referred to as Town), through the Office of the Purchasing Agent, will accept sealed proposals for Trumbull Parks and Recreation Department on requesting bids for replacement of automated irrigation system at Unity Park, White Plains Road. Irrigation system to provide full coverage to one (1) 90' baseball field and two (2) Little League fields in accordance with the specifications, requirements, and scope of work contained in this request.

Interested parties are encouraged to make a visit to the field site.

Mr. Dimitri Paris, Parks Superintendent (203.452.5075) or (203.650.6084)

1. PREPARATION OF PROPOSALS

- a) Proposals shall be submitted by using the enclosed PROPOSAL FORM that accompanies this request. Submit one (1) ORIGINAL and two (2) EXACT COPIES. Responders should submit Proposals in a clear, concise and legible manner to permit proper evaluation of responsive Proposals.
- b) Responders may also submit, under separate cover with their proposal, any samples of reports and documents that are necessary to meet the requirements (deliverables) of this request should a purchase order be awarded
- c) No oral, telephonic, or faxed proposals will be considered. Corrections, deletions, or additions to Proposals may be made by wire, provided such wires are received in correct and comprehensive form prior to the opening time of Proposals, and confirmed by letter. No telephone corrections, deletions, or additions will be accepted. The Town reserves the right to reject any or all Proposals, and to waive any or all formalities in connection therewith.

2. BID SUBMISSION

Bids are to be submitted in DUPLICATE in a sealed envelope and addressed as follows:

Proposal: RFP 6144 Due: SEPTEMBER 24, 2015
Purchasing Agent: KEVIN BOVA
Town of Trumbull
5866 Main Street
Trumbull, CT 06611

Please be advised that the person(s) signing the formal proposal must be authorized by your organization to contractually bind your firm with regard to prices and related contractual obligations for the delivery period requested.

3. BID TIME

Bids shall be received at the office of the Purchasing Agent, Town Hall, prior to the advertised hour of opening, at which time all proposals will be publicly opened and read aloud. Any bid received after the due date and time noted above shall not be accepted or opened.

A bidder may withdraw a proposal at any time prior to the above scheduled date and time. Any bid received after the above scheduled date and time shall not be considered or opened.

4. TOWN OPTIONS

The Town of Trumbull reserves the right to reject any and all bids and does not bind itself to accept the lowest bid or any proposal. The Town reserves the right to ask for new bids in whole or in part, or to reject any or all bids, or any part thereof, and to waive any requirements, irregularities, technical defects or service therein when it is deemed to be in the best interest of the Town.

If a bid proposal does not meet or better the required specifications, requirements, and scope of work requested on all points that must be outlined in a letter attached to the bid proposal otherwise it will be presumed that the bid as proposed is in accordance with the required specifications.

5. **TAXES**

All purchases made by the Town, and associated with the award of this requirement shall be tax exempt. Any taxes must not be included in proposal prices. A Town Tax Exemption Certificate shall be furnished upon request.

6. **INQUIRIES AND SITE VISITS**

a) All inquiries regarding the project intent and specifications should be directed to Mr. Dimitri Paris, Parks Superintendent (203.452.5075), and shall be answered up to the close of business on September 17, 2015 after which time no additional questions will be accepted. To ensure consistent interpretation of inquiries; answers to questions the Town deems to be in the interest of all responders will be made from the Purchasing Department website www.trumbull-ct.gov listed as an addendums appropriate to all responders.

b) The Town reserves the right to communicate with any or all of the responders to clarify the provisions of proposals. The Town further reserves the right to request additional information from any proposal at any time after proposals are opened.

c) **Interested parties are encouraged to make a visit to the field site.**

d) A copy of the field layout is available from Mr. Dimitri Paris, Parks Superintendent (203.452.5075) or (203.650.6084) and also part of this Bid.

7. **AWARD AND AUTHORITY**

The Town Purchasing Agent will issue notification of award in writing or with a purchase order.

8. **PRICING**

Bidders are requested to quote as a complete “Turn Key” installation.

All prices quoted are to be firm for a period of at least ninety (90) days following bid opening.

The Town is always interested in any and all cost reduction opportunities

10. **ASSIGNMENT OF RIGHTS, TITLES, AND INTERESTS**

Any assignment or subcontracting by a bidder, vendor, or contractor for work to be performed, or goods And/or services to be provided, in whole or in part, and any other interest in conjunction with Town Procurement shall not be permitted without the express written consent of the Town of Trumbull.

11. **HOLD HARMLESS CLAUSE**

Bidder agrees to indemnify, hold harmless and defend the Town from and against any and all liability for loss, damage or expense which the Town may suffer or for which the Town may be held liable by reason of injury, including death, to any person or damage to any property arising out of or in any manner connected with the operations to be performed under an agreement with the Town, whether or not due in whole or in part of any act, omission or negligence of the Town or any of his representatives or employees.

12. **WORK REGULATIONS AND STANDARDS**

All work activities performed in association with this request must be performed and completed for the Town in accordance with current Federal, State and Local regulations. All services performed shall also conform to the latest OSHA standards and/or regulations.

13. INSURANCE

The successful proposer shall provide the Town Purchasing Agent with a Certificate of Insurance before work commences. The Town shall be named as an additional insured with Insurance Company licensed to write such insurance in Connecticut, against the following risks and in not less than the following amounts:

- Worker’s Compensation
- Contractor’s Public Liability and Property Damage
- Automobile Insurance

General Liability	Each Person	Each Occurrence	Aggregate
Bodily Injury Liability	\$1,000,000	\$1,000,000	\$5,000,000
Property Damage Liability		\$1,000,000	\$5,000,000
Personal Injury Liability		\$1,000,000	\$5,000,000
Comprehensive Automobile Liability			
Bodily Injury	\$1,000,000	\$1,000,000	\$5,000,000
Property Damage		\$1,000,000	\$5,000,000

Such policies shall provide that no coverage shall be changed or cancelled unless thirty- (30) day’s prior notice of such change or cancellation shall be made to the owner. Such notice shall be made by registered mail; postage prepaid, to the Purchasing Agent, Town of Trumbull, Town Hall, Trumbull, Connecticut 06611.

In the event of cancellation, the contractor shall cease all operations on or before the effective date of said cancellation and he shall not commence work again until he has obtained replacement insurance and has delivered a Certificate of Insurance to the office of the Owner’s Purchasing Department.

14. CONFLICT OF INTEREST

No purchase shall be made from nor shall services (other than services as an officer, agent, or employee of the Town) be secured from any officer or employee of the Town, or from any partnership or corporation in which such officer or employee is a partner or officer, or holds a substantial interest, unless such relationship and the fact that such purchase is contemplated shall be made known in writing to the agency making such purchase, and notice thereof posted, for at least five (5) days before such purchase be made , in the office of the agency making such purchase and in a public place in the Trumbull Town Hall.

15. REFERENCES

Bidders must provide five (5) commercial references using the attached form.

16. PROPOSAL, PERFORMANCE AND PAYMENT BONDS

- a) A Bid Bond payable to the Owner must accompany each Proposal for ten (10%) percent of the total amount of the Proposal. As soon as the Proposal prices have been compared, the Owner will return the bonds of all except the three lowest responsible Proposals. When the Agreement is executed, the bonds of the two remaining unsuccessful Proposers will be returned. The Bid Bond of the successful Proposer will be retained until the Payment Bond and Performance Bond have been executed and approved, after which it will be returned. A certified check may be used in lieu of a Bid Bond.
- b) A Performance Bond and a Payment Bond, each in the amount of 100 percent (100%) of the Contract Price, with a corporate surety approved by the Owner, will be required for the faithful performance of the contract. Attorneys-in-fact who sign the Bid Bonds or Payment Bonds and Performance Bonds must file with each bond, a certified and effective dated copy of their power of attorney.
- c) The party to whom the contract is awarded will be required to execute the Agreement and obtain the Performance Bond and Payment Bond within ten (10) calendar days from the date when Notice of Award is delivered to the Proposer. The Notice of Award shall be accompanied by the necessary Agreement and Bond forms. In case of failure of the Proposer to execute the Agreement, the Owner may, at his option, consider the Proposer in default, in which case the Bid Bond accompanying the proposal shall become the property of the Owner.
- d) The Owner, upon receipt of acceptable Performance Bond, Payment Bond and Agreement signed by the Contractor, shall sign the Agreement and return to the Contractor an executed duplicate of the Agreement within a reasonable period of time. The returned executed Agreement by the Owner to the Contractor shall be accompanied with a Notice to Proceed.

17. **SPECIFICATIONS**

- a) Should any Bidder find discrepancies in the Specifications, or be in doubt as to the exact meaning, notify the Town at once. The Town may then, at their option, issue Addenda clarifying same. The Town shall not be responsible for oral instructions or misinterpretations of Specifications.
- b) The Town reserves the right to issue Addenda at any time prior to the Bid Opening. All such Addenda become, upon issuance part of the Specification. Each Bidder shall cover such Addenda in the proposal and shall acknowledge receipt of same on the blank provided therefore.
- c) The Town reserves the right to require any or all Bidders to submit statements as to previous experience in performing comparable work; and as to financial and technical organizations and resources available for this work. The mere opening and reading aloud of a bid shall not constitute or imply the Town's acceptance of the suitability of a Bidder or the bid, nor shall possession of Drawings or Specifications constitute an invitation to bid. The competency and responsibility of Bidders as well as the number of working days required for completion will be considered in making an award.

ADENDUMS

- d) It is the responsibility of the bidder to verify prior to final submittal of a bid or bid if any addenda to this request have been issued. Any addenda to this request shall be posted on the Town of Trumbull website www.trumbull-ct.gov under the Purchasing Department's section. Bidders also call the Purchasing Department directly 203.452.5042 for inquiries regarding addenda.

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REQUIREMENTS, SPECIFICATIONS AND SCOPE OF WORK

Trumbull Parks and Recreation Department is requesting bids for replacement of automated irrigation system at Unity Park, White Plains Road. Irrigation system to provide full coverage to one (1) 90' baseball field and two (2) Little League fields

The irrigation diagram is presented as statement of intent for the project design. Actual design to be provided by the vendor and approved by the owner prior to commencement of the project.

All questions regarding the project intent and specifications should be directed to Dmitri Paris, Park Superintendent dparis@trumbull-ct.gov

This request is for a "turn key" proposal and "time is of the essence" and will be considered in awarding this requirement. Note any exceptions or clarifications (attached pages as necessary).

UNITY PARK BALLFIELD IRRIGATION

REQUIREMENTS, SPECIFICATIONS AND SCOPE OF WORK:

PART 1 - GENERAL

1.1 GENERAL PROVISIONS

- A. Attention is directed to the CONTRACT AND GENERAL CONDITIONS and all Sections within DIVISION 01 - GENERAL REQUIREMENTS which are hereby made a part of this Section of the Specifications.

1.2 DESCRIPTION OF WORK

- A. Work Included: Provide labor, materials and equipment necessary to complete the work of this Section, including but not limited to the following:

1. Piping.
2. Manual valves.
3. Automatic control valves.
4. Automatic drain valves.
5. Sprinklers.
6. Quick couplers.
7. Controllers.
8. Boxes for automatic control valves.
9. Flow Sensor
10. Hose Reels

1.3 PERFORMANCE REQUIREMENTS

- A. Irrigation zone control shall be Rain Bird ESP12-LXME Commercial Modular controller with flow sensing and Hunter PGV 150/100 electric valves.

- B. Location of Sprinklers and Specialties: Design location is approximate. Make minor adjustments necessary to avoid plantings and obstructions such as signs and light standards. Maintain 100 percent irrigation coverage of areas indicated.
- C. Delegated Design: Design 100 percent coverage irrigation system, including comprehensive engineering analysis by a qualified professional engineer in regions requiring a professional engineer, otherwise, all other locations to be design-build, using performance requirements and design criteria indicates
- D. Minimum Working Pressures: The following are minimum pressure requirements for piping, valves, and specialties unless otherwise indicated:
 - 1. Irrigation Main Piping: [200 psig]
 - 2. Circuit Piping: [150 psig]

1.4 SUBMITTALS

- A. Product Data: For each type of product indicated. Include rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories.
- B. Wiring Diagrams: For power, signal, and control wiring.
- C. Zoning Chart: Show each irrigation zone and its control valve.
- D. Controller Timing Schedule: Indicate timing settings for each automatic controller zone.
- E. Field quality-control reports.
- F. Operation and maintenance data.
- G. Certification of Rainbird IQ Installation and Programming
- H. Certification of CT backflow testing
- I. As Built survey provided upon completion

PART 2 - PRODUCTS

2.1 PIPES, TUBES, AND FITTINGS

- A. Comply with requirements in the piping schedule for applications of pipe, tube, and fitting materials, and for joining methods for specific services, service locations, and pipe sizes.
- B. Hard Copper Tube: [ASTM B 88, Type L,] [and] [ASTM B 88, Type M,] water tube, drawn temper.
 - 1. Copper Pressure Fittings: ASME B16.18, cast-copper-alloy or ASME B16.22, wrought-copper solder-joint fittings. Furnish wrought-copper fittings if indicated.
 - 2. Bronze Flanges: ASME B16.24, Class 150, with solder-joint end.
- C. PVC Pipe: ASTM D 1785, PVC 1120 compound, [Schedules 40 and 80].

1. PVC Socket Fittings: ASTM D 2466, [Schedules 40 and 80].
2. PVC Threaded Fittings: ASTM D 2464, Schedule 80.
3. PVC Socket Unions: Construction similar to MSS SP-107, except both headpiece and tailpiece shall be PVC with socket ends.

D. PVC Pipe, Pressure Rated: ASTM D 2241, PVC 1120 compound, [SDR 21] [and] [SDR 26].

1. PVC Socket Fittings: ASTM D 2467, Schedule 80.
2. PVC Socket Unions: Construction similar to MSS SP-107, except both headpiece and tailpiece shall be PVC with socket or threaded ends.

2.2 PIPING JOINING MATERIALS

- A. Brazing Filler Metals: AWS A5.8/A5.8M, BCuP Series, copper-phosphorus alloys for general-duty brazing unless otherwise indicated.
- B. Solder Filler Metals: ASTM B 32, lead-free alloys. Include water-flushable flux according to ASTM B 813.
- C. Solvent Cements for Joining PVC Piping: ASTM D 2564. Include primer according to ASTM F 656.
- D. Plastic, Pipe-Flange Gasket, Bolts, and Nuts: Type and material recommended by piping system manufacturer unless otherwise indicated.

2.3 MANUAL VALVES

A. Brass Ball Valves:

1. Description:
 - a. Standard: MSS SP-110.
 - b. SWP Rating: 150 psig.
 - c. CWP Rating: 600 psig.
 - d. Body Design: Two piece.
 - e. Body Material: Forged brass.
 - f. Ends: Threaded or solder joint if indicated.
 - g. Seats: PTFE or TFE.
 - h. Stem: Brass.
 - i. Ball: Chrome-plated brass.
 - j. Port: Full[or regular, but not reduced].

B. Bronze Ball Valves:

1. Description:
 - a. Standard: MSS SP-110.
 - b. SWP Rating: 150 psig.
 - c. CWP Rating: 600 psig.
 - d. Body Design: Two piece.
 - e. Body Material: Bronze.
 - f. Ends: Threaded or solder joint if indicated.
 - g. Seats: PTFE or TFE.
 - h. Stem: Bronze.
 - i. Ball: Chrome-plated brass.
 - j. Port: Full[or regular, but not reduced].

C. Plastic Ball Valves:

1. Description:
 - a. Standard: MSS SP-122.
 - b. Pressure Rating: [125 psig minimum] [150 psig].
 - c. Body Material: PVC.
 - d. Type: Union.
 - e. End Connections: Socket or threaded.
 - f. Port: Full.

2.4 AUTOMATIC CONTROL VALVES

A. Bronze, Automatic Control Valves:

1. Description: Cast-bronze body, normally closed, diaphragm type with manual-flow adjustment, and operated by 24-V ac solenoid.

B. Plastic, Automatic Control Valves:

1. Description: Molded-plastic body, normally closed, diaphragm type with manual-flow adjustment, and operated by 24-V ac solenoid. Hunter PGV 150/100 Electric Valves required.

2.5 SPRINKLERS

A. General Requirements: Designed for uniform coverage over entire spray area indicated at available water pressure.

B. Plastic, Exposed, Gear Driven Rotary, Impact-Drive Rotary Sprinklers:

1. Description:
 - a. Construction: ABS and corrosion-resistant metals.
 - b. Mounting: Aboveground, exposed on riser.
 - c. Hunter I 25/ Hunter PGP Ultra Rotors required

C. Plastic, Surface, Pop-up Spray Sprinklers:

1. Description:
 - a. Body Material and Flange: ABS.
 - b. Pattern: Fixed, with flow adjustment.
 - c. Hunter Pro Spray

2.6 QUICK COUPLERS

A. Description: Factory-fabricated, bronze or brass, two-piece assembly. Include coupler water-seal valve; removable upper body with spring-loaded or weighted, rubber-covered cap; hose swivel with ASME B1.20.7, 3/4-11.5NH threads for garden hose on outlet; and operating key.

1. Locking-Top Option: Vandal-resistant locking feature. Include two matching keys.

2.7 CONTROLLERS

A. Type: Rainbird ESP12 LXMEF controller with flow sensing, IQ Technology, IQ Ethernet Cartridge

1. Controller Stations for Automatic Control Valves: Each station is variable from approximately [5 to 60] minutes. Include switch for manual or automatic operation of each station.
2. Exterior Control Enclosures: NEMA 250, Type 4, weatherproof, with locking cover and [two] matching keys; include provision for grounding.
 - a. Body Material: [Molded plastic].
 - b. Mounting: [Surface type for wall].
3. Control Transformer: 24-V secondary, with primary fuse.
4. Timing Device: Adjustable, 24-hour, 14-day clock, with automatic operations to skip operation any day in timer period, to operate every other day, or to operate two or more times daily.
 - a. Manual or Semiautomatic Operation: Allows this mode without disturbing preset automatic operation.
 - b. Nickel-Cadmium Battery and Trickle Charger: Automatically powers timing device during power outages.
 - c. Surge Protection: Metal-oxide-varistor type on each station and primary power.
5. Rain Sensor: Adjustable from one to seven days, to shut off water flow during rain.
6. Wiring: UL 493, Type UF multiconductor, with solid-copper conductors; insulated cable; suitable for direct burial.
 - a. Feeder-Circuit Cables: No. 12 AWG minimum, between building and controllers.
 - b. Low-Voltage, Branch-Circuit Cables: No. 14 AWG minimum, between controllers and automatic control valves; color-coded different from feeder-circuit-cable jacket color; with jackets of different colors for multiple-cable installation in same trench.
 - c. Splicing Materials: Manufacturer's packaged kit consisting of insulating, spring-type connector or crimped joint and epoxy resin moisture seal; suitable for direct burial

2.8 BOXES FOR AUTOMATIC CONTROL VALVES

A. Plastic Boxes:

1. Description: Box and cover, with open bottom and openings for piping; designed for installing flush with grade.
 - a. Size: "Jumbo"
 - b. Shape: [Rectangular].
 - c. Sidewall Material: [PE] [PE, ABS, or FRP]
 - d. Cover Material: [PE] [PE, ABS, or FRP]
 - 1) Lettering: "[VALVE BOX] [IRRIGATION]

B. Drainage Backfill: Cleaned gravel or crushed stone, graded from **3/4 inch** minimum to **3 inches** maximum.

PART 3 - EXECUTION

3.1 EARTHWORK

- A. Rigid pipe should be pulled wherever possible.
- B. Trenches to be backfilled with clean material no rock larger than 1.5” graded to 1.5”-2” from finished grade
- C. Pipe to be bedded in 4” sand
- D. Drain Pockets: **Excavate to sizes indicated**. Backfill with cleaned gravel or crushed stone, graded from [3/4 to 3 inches], to [12 inches] below grade. Cover gravel or crushed stone with sheet of asphalt-saturated felt and backfill remainder with excavated material.
- E. Provide minimum cover over top of underground piping according to the following:
 - 1. Irrigation Main Piping: Minimum depth of [18 inches] below finished grade.
 - 2. Circuit Piping: [12 inches].
 - 3. Drain Piping: [12 inches].
 - 4. Sleeves: [24 inches].

3.2 PIPING INSTALLATION

- A. Location and Arrangement: Drawings indicate location and arrangement of piping systems. Install piping as indicated unless deviations are approved on Coordination Drawings.
- B. Install piping at minimum uniform slope of 0.5 percent down toward drain valves.
- C. Install piping free of sags and bends.
- D. Install groups of pipes parallel to each other, spaced to permit valve servicing.
- E. Install fittings for changes in direction and branch connections.
- F. Install unions adjacent to valves and to final connections to other components with **NPS 2** or smaller pipe connection.
- G. Install flanges adjacent to valves and to final connections to other components with **NPS 2-1/2** or larger pipe connection.
- H. Install underground thermoplastic piping according to ASTM D 2774[and ASTM F 690].
- I. Install expansion loops in control-valve boxes for plastic piping.
- J. Lay piping on solid subbase, uniformly sloped without humps or depressions.
- K. Install PVC piping in dry weather when temperature is above **40 deg F**. Allow joints to cure at least 24 hours at temperatures above **40 deg F** before testing.

3.3 JOINT CONSTRUCTION

- A. Ream ends of pipes and tubes and remove burrs. Bevel plain ends of steel pipe.

- B. Remove scale, slag, dirt, and debris from inside and outside of pipe and fittings before assembly.
- C. Threaded Joints: Thread pipe with tapered pipe threads according to ASME B1.20.1. Cut threads full and clean using sharp dies. Ream threaded pipe ends to remove burrs and restore full ID. Join pipe fittings and valves as follows:
 - 1. Apply appropriate tape or thread compound to external pipe threads unless dry seal threading is specified.
 - 2. Damaged Threads: Do not use pipe or pipe fittings with threads that are corroded or damaged. Do not use pipe sections that have cracked or open welds.
- D. Copper-Tubing Brazed Joints: Construct joints according to CDA's "Copper Tube Handbook," using copper-phosphorus brazing filler metal.
- E. Copper-Tubing Soldered Joints: Apply ASTM B 813 water-flushable flux to tube end unless otherwise indicated. Construct joints according to ASTM B 828 or CDA's "Copper Tube Handbook," using lead-free solder alloy (0.20 percent maximum lead content) complying with ASTM B 32.
- F. PVC Piping Solvent-Cemented Joints: Clean and dry joining surfaces. Join pipe and fittings according to the following:
 - 1. Comply with ASTM F 402 for safe-handling practice of cleaners, primers, and solvent cements.
 - 2. PVC Pressure Piping: Join schedule number, ASTM D 1785, PVC pipe and PVC socket fittings according to ASTM D 2672. Join other-than-schedule-number PVC pipe and socket fittings according to ASTM D 2855.
 - 3. PVC Nonpressure Piping: Join according to ASTM D 2855.

3.4 VALVE INSTALLATION

- A. Aboveground Valves: Install as components of connected piping system.
- B. Throttling Valves: Install in underground piping in boxes for automatic control valves.
- C. Drain Valves: Install in underground piping in boxes for automatic control valves.

3.5 SPRINKLER INSTALLATION

- A. Install sprinklers after hydrostatic test is completed.
- B. Install sprinklers at manufacturer's recommended heights.
- C. Locate part-circle sprinklers to maintain a minimum distance of **4 inches** from walls and **2 inches** from other boundaries unless otherwise indicated.

3.6 AUTOMATIC IRRIGATION-CONTROL SYSTEM INSTALLATION

- A. Equipment Mounting: Install interior controllers on [wall].
 - 1. Place and secure anchorage devices. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.
 - 2. Install anchor bolts to elevations required for proper attachment to supported equipment.

- B. Install control cable in same trench as irrigation piping and at least **2 inches** below [or beside] piping. Provide conductors of size not smaller than recommended by controller manufacturer.

3.7 FIELD QUALITY CONTROL

- A. Perform tests and inspections.
- B. Tests and Inspections:
 - 1. Leak Test: After installation, charge system and test for leaks. Repair leaks and retest until no leaks exist.
 - 2. Operational Test: After electrical circuitry has been energized, operate controllers and automatic control valves to confirm proper system operation.
 - 3. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
- C. Any irrigation product will be considered defective if it does not pass tests and inspections.
- D. Prepare test and inspection reports.

3.8 ADJUSTING

- A. Adjust settings of controllers.
- B. Adjust automatic control valves to provide flow rate at rated operating pressure required for each sprinkler circuit.
- C. Adjust sprinklers and devices, except those intended to be mounted aboveground, so they will be flush with, or not more than **1/2 inch** above, finish grade

3.9 HOSE REEL INSTALLATION. (supply and install)

- A. Type: Coxreels: model # 1125-4-200 or Reelcraft: model # CA32112L
- B. Location to be determined at 1 dugout per field. (Total 3)
- C. 200 L.F. ½” high pressure hose per reel
- D. Materials to adapt to quick coupler valves
- E. Mounting and brackets to be determined

END OF SECTION

General Conditions

Demolition of existing irrigation system. Contractor will remove all existing heads and return to owner. All other structures within 6' of surface to be removed. Existing piping to be abandoned in place. Piping and wiring encountered during installation should be cut removed no less than 12" from new irrigation piping.

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REFERENCES

(To be submitted with proposal – attach additional pages as necessary)

List references for similar services provided for at least five (5) clients in the past five (5) years (attach any other client references if desired). **PLEASE NOTE IT IS THE TOWN'S INTENT TO COMMUNICATE WITH THE REFERENCES LISTED HEREIN.**

CLIENT 1:

Organization Name: _____

Contact Name: _____ Phone: _____

Service Dates: _____

Project(s): _____

CLIENT 2:

Organization Name: _____

Contact Name: _____ Phone: _____

Service Dates: _____

Project(s): _____

CLIENT 3:

Organization Name: _____

Contact Name: _____ Phone: _____

Service Dates: _____

Project(s): _____

CLIENT 4:

Organization Name: _____

Contact Name: _____ Phone: _____

Service Dates: _____

Project(s): _____

CLIENT 5:

Organization Name: _____

Contact Name: _____ Phone: _____

Service Dates: _____

Project(s): _____

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Schedule A: Prior Experience (Add Additional Pages as Needed)

Project	Owner	Design Professional	Contract Price	Amount Completed	Date of Scheduled Completion

Schedule B: Current Experience (Add Additional Pages as Needed)

Project	Owner	Design Professional	Contract Price	Amount Completed	Date of Scheduled Completion

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ADDENDA

The following Addenda(s) have been received. The modifications to the Bid Documents noted therein have been considered and all costs thereto are included in the Base Bid.

Addenda # _____, _____, _____, _____, _____

PROPOSAL

THE UNDERSIGNED AFFIRMS AND DECLARES that this proposal is executed with full knowledge and acceptance of the specifications, requirements, terms and conditions contained herein and with complete understanding and full compliance of system requirements and hereby submits this proposal for the request noted above and certifies that this proposal meets all the specifications and conditions requested herein. Any substitutions to the specifications requested are clearly and completely noted. Any alternate proposals are presented in a similar format to those requested and are attached herein. It is understood that the Town reserves the right to reject any or all proposals or waive any formalities in this request. The work is to be done in strict accordance with the Specifications, Drawings and all Contract Documents, within the time set forth therein, and at the prices stated on the Proposal Schedule.

By submission of this Proposal, each Proposer certifies, that this Proposal has been arrived at independently, without consultation, communication or agreement as to any matter relating to this Proposal with any other Proposer or with any competitor.

Proposer understands that the Owner reserves the right to reject any or all proposals and to waive any informality in the bidding.

Proposer agrees that this proposal shall be good and may not be withdrawn for a period of ninety (90) calendar days after the scheduled closing time for receiving proposals.

Upon receipt of written notice of the acceptance of this proposal, proposer shall execute the formal contract attached within ten (10) days and deliver a Surety Bond or Bonds as required in the General Conditions. The Bid Security attached in the sum of _____ Dollars (\$ _____) is to become the property of the Owner in the event the contract and bond are not executed within the time above set forth, as liquidated damages for the delay and additional expense to the Owner caused thereby.

The Total Proposed price is: _____ **Dollars**
(Written amount)

FIGURES \$ _____

Work to commence work _____ days after receipt of a Letter of Award & to Proceed.
Above Price Shall Remain Firm for: _____ Days

Respectfully submitted,

Company Name

By (Signature)

Address

Print Name

Company Name

Title

Date

Telephone/Fax

Email

(SEAL-if proposal is by a corporation)