

STATEMENT OF WORK

FURNISH AND INSTALL GOOSE FENCE AT BEACH AREA SHAWNEE STATE PARK (Bedford County)

DEPARTMENT OF CONSERVATION & NATURAL RESOURCES BUREAU OF STATE PARKS

A. SCOPE OF WORK:

The Pennsylvania Department of Conservation and Natural Resources (DCNR), Bureau of State Parks, Shawnee State Park, requires services of a contractor to furnish and install fencing and gates along the lake wall for the purpose of deterring and limiting geese access to the swimming beach area utilized by park visitors in an effort to reduce the adverse impact of goose droppings on water and sand quality.

The services shall include but are not limited to furnishing all materials, fencing, paint, labor, superintendence, tools, and equipment required for the fence installation as outlined within the following specifications.

This contract is reserved for the Small Business Procurement Initiative as designated in Executive Order 211-09 dated November 21, 2011. Only Self Certified Small Businesses which have been certified by the Department of General Services prior to the bid opening date and time may submit a response. Your self-certification form from the Department of General Services should be submitted along with your Invitation for Bid (IFB) response. Failure to produce a valid Self Certified Small Business certificate (which must be dated prior to the opening date of this IFB) shall render your submission non-responsive. For more information on the Department of General Services Small Business Self Certification process, please visit: www.smallbusiness.pa.gov.

Any questions concerning the technical aspects of this contract should be directed to Dorothy Krupa, Park Manager, at 814-733-4218, or by e-mail to dokrupa@pa.gov, Monday through Friday between 8:00 a.m. and 3:00 p.m. Questions regarding the bidding or contracting procedures should be directed to Nancy Weibley at 717-783-4884.

B. CONTRACT TASKS:

Work consists of furnishing and installation of approximately 475 lineal feet of fencing, gates, and hardware along the lake wall which includes but is not limited to installation of Poly Vinyl (PVC) coated chain link fabric with galvanized/PVC frame work and accessories for a fully operational system at approximately 475 total lineal feet including chain link swing gates as indicated on the contract drawing (attached).

POSTS

Posts shall be of galvanized steel and will be referred to as "Terminal" or "Line." Terminal posts include corner, angle, pull, and end posts. Line posts are also known as "Intermediate" posts. Pipes for posts shall conform with ASTM designation F1083, Schedule 40. Pipes for terminal posts shall be of (2) inches nominal size, weighing 3.65 lbs/ft and those for line posts shall be of one and one half (1-½) nominal size, weighing 2.72 lbs/ft. Terminal post caps shall be fitted recessed Allen wrench head set screws for

anchoring the cap to the post. External protective coating F1043 Type B, 0.9 oz/FT³ minimum hot dip zinc coating plus a chromate conversion and a clear polymer coating. Internal coating F1043 Type D, 81% nominal zinc pigmented coating minimum 3 mils thick or Type B, Minimum 0.9 oz/ft³. All ferrous metal Posts and Rails are to be galvanized and coated with PVC to match framework and fabric.

RAILS

Top rails shall be one and one-quarter (1 1/2) inch nominal size, galvanized steel pipes, weighing 2.27 pounds per foot and shall conform to ASTM Designation F 1083, Schedule 40.

TENSION WIRE

Poly Vinyl Chloride (PVC) coated steel tension wire per ASTM F 1664, 7 gauge steel core wire, 0.177" PVC coating class and color to match chain link fabric.

CHAIN LINK FENCE FABRIC

Fabric shall be Class 2b PVC-coated fabric conforming to ASTM F668 with the following additions and/or modifications thereto. Fabric shall be not less than No. 9 gage wire with (2) inch mesh sizes. The PVC Coating shall be BLACK in color.

FITTINGS

Post Caps: ASTM F626 galvanized pressed steel, malleable iron, or aluminum alloy weather tight closure cap. Provide one cap for each post. "C" shaped line post without top rail do not require post caps. When top rail is specified, provide line post loop tops to secure top rail.

Rail Ends: Galvanized pressed steel per ASTM F626, for connection of rails to Post using a brace band.

Wire Ties: 9 gauge (0.148") galvanized steel wire for attachment of fabric to line post and rails. Pre-formed hog ring ties to be 9 gauge (0.148") galvanized steel or aluminum for attachment of fabric to tension wire. Tie wire and hog rings PVC coated and in compliance with ASTM F626. Color to match fabric.

Brace and Tension (Stretcher Bar) bands: ASTM F626 galvanized 12 gauge (0.105") pressed steel by 3/4" formed to a minimum 300 degree profile curvature for post attachment. Secure bands using minimum 5/16 galvanized carriage bolt and nut.

Tension (Stretcher) galvanized steel bars: One piece lengths equal to 2 inches less than full height of fabric with a minimum cross-section of 3/16" x 3/4" per ASTM F626. Provide tension (stretcher) bars where chain link fabric is secured to terminal Post.

Truss Rod Assembly: Galvanized steel minimum 5/16" diameter truss rod pressed steel tighter, in accordance with ASTM F626.

Carriage bolts and nuts: Galvanized of commercial quality.

All ferrous metal fittings are to be galvanized and coated with PVC to match framework and fabric.

Green Poly-Cap protective fence guard is to be installed on to rail with tie wraps every 3 feet.

CHAIN LINK SWING GATES

Swing gates shall be single leaf 3' wide opening by 3' high. Fabricate chain link swing gates in accordance with ASTM F900. Gate frame to be of welded construction. Weld areas to be protected with zinc-rich paint per ASTM A780. The gate frame members are to be spaced no greater than 8' 0" (2.44 m) apart horizontally or vertically. Exterior members to be 1.900" (48.3 mm) OD pipe; interior members when required shall be 1.660" (42.2 mm) OD pipe. Pipe to be Grade 2 ASTM F1043 Group IC. Chain link fabric shall match specification of fence system. Fabric to be stretched tightly and secured to vertical outer frame members using tension bar and tension bands spaced 12" (304.8 mm) on center and tied to the horizontal and interior members 12" (304.8 mm) on center using 9 gauge galvanized steel ties per section 2.04. All ferrous metal fittings are to be galvanized and coated with PVC to match framework and fabric.

Hinges, hot dip galvanized pressed steel or malleable iron, structurally capable of supporting gate leaf and allow opening and closing without binding. Non-lift-off type hinge design shall permit gate to swing. Latch: Galvanized forked type capable of retaining gate in closed position and have provision for padlock. Latch shall permit operation from either side of gate.

Keeper to secure open leaves: Provide galvanized gate hold back keeper for each gate leaf over 5' (1524 mm) wide. Gate keeper shall consist of mechanical device for securing free end of gate when in full open position.

5 - 3' wide gates and 1 – 8' wide double gate shall be installed with spring loaded hinges. Handle latch system and a plate on back of the panel to push the gate open. 8' double gate shall be spring loaded on both sides so that they meet in the middle and can be swung both ways.

Gate posts: Grade 2 pipe ASTM F1043 Group IC

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| Gate leaf width up to 4 ft. (1.2 m) | Outside Diameter 2.375 in. (60.3 mm) |
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| Gate leaf Width up to 6 ft. (1.8 m) | 2.875 in. (73.0 mm) |
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POST SETTING MATERIALS

Drive Anchors: Galvanized ASTM A36 steel drive anchor angle blades, 1"x1"x30" long secured to post with a pressed steel galvanized shoe clamp. Drive anchors are limited to post size 2.785" OD or less.

Posts shall be driven to a depth of not less than 3 feet.

CHAIN LINK FRAMEWORK INSTALLATION

- A. Install chain link fence system in accordance with ASTM F567 and manufacturer's instructions.
- B. Fence shall be set 2 to 3 feet from water's edge at normal pool.
- C. Locate terminal post at each fence termination and change in horizontal or vertical direction of 30° or more.
- D. Space line posts uniformly 10' on center maximum.
- E. Posts shall be driven into the ground to a depth of not less than 3 feet.

- F. Check each post for vertical and top alignment, and maintain in position during placement and finishing operations.
- G. Tension wire: Install tension wires so that it will be located 4" up from bottom of the fabric. If top rail is not specified, install the tension wire so that it will be located 4" down from the top of the fabric. Stretch and install tension wire before installing the chain link fabric and attach it to each post using wire ties.
- H. Top rail: Install in lengths of 21'. Connect ends with sleeves forming a rigid connection; allow for expansion and contraction.
- I. Center Rails: Install mid rails between line posts and attach to post using rail end or line rail clamps.
- J. Bottom Rails: Install bottom rails between posts and attach to post using rail end or line rail clamps.

CHAIN LINK FABRIC INSTALLATION

Fabric: Install fabric on security side, pull fabric taut; thread the tension bar through fabric and attach to terminal posts with tension bands spaced maximum of 15" on center and attach so that fabric remains in tension after pulling force is released. Install fabric so that it is 2" +/- 1" above finish grade.

Secure fabric using wire ties to line posts at 15" on center and to rails and braces 24" on center, and to the tension wire using hog rings 24" on center. Tie wire shall be secured to the fabric by wrapping it two 360 degree turns around the chain link wire pickets. Cut off any excess wire and bend back so as not to protrude so as to avoid injury if a pedestrian may come in contact with the fence.

CHAIN LINK GATE INSTALLATION

Swing gates: Installation of swing gates and gate posts shall be per ASTM F567. Direction of swing shall be as shown on drawings. Gates shall be hung plumb in the closed position with minimal space from grade to bottom of gate leaf.

C. SITE INSPECTION:

A mandatory site inspection is required prior to bidding. Interested vendors must contact the Park Manager, Dorothy Krupa, at 814-733-4218 or through e-mail at dokrupa@pa.gov, Monday through Friday between 8:00 a.m. and 3:00 p.m., to set up a visit.

A mandatory site inspection is required:

- 1.) to ensure property lines and legal boundaries of work are clearly established,
- 2.) for the Department to provide exact placement of fence location, and,
- 3.) Because it is necessary to verify areas to receive fencing are completed to final grade.

D. CONTRACTOR/MANUFACTURER QUALIFICATIONS:

Prospective bidder must have all supplies, tools, equipment and qualified employees for type of installation indicated in these specifications prior to beginning the work.

Contractor shall have 5 years' experience installing similar projects in accordance with ASTM F567.

Manufacturing company shall have manufacturing facilities in the United States with experience specializing in manufacturing of chain link fence products.

E. CONTRACT ADMINISTRATIVE REQUIREMENTS:

All contracts must be completed by the termination date. The Bureau of State Parks reserves the right to evaluate the proposed fencing operation and reject any part of the operation that may result in unsatisfactory performance.

F. CONTRACT TERM:

The contract shall commence upon receipt of Purchase Order, and terminate June 30, 2015.

G. GENERAL CONTRACT TASKS:

1. **PURPOSE** - It is the purpose and intent of this document to provide specifications for materials, equipment, and other operational requirements necessary for a properly prepared and executed contract and for securing proper equipment and personnel capable of performing necessary related functions of the contract.
2. **FENCING** - The Bureau of State Parks has estimated materials will include, but are not limited to 475 linear feet of fencing and gates along the lake wall at Shawnee State Park as outlined further within these specifications.
3. **DAMAGE TO COMMONWEALTH PROPERTY** - Contractor shall immediately repair in a manner which meets with the approval of park management, any damage to State Park roads, turf and/or other facilities resulting from the contractor's use for this project. Park Management may notify the contractor at any time to temporarily discontinue use of any of the above whenever such action is necessary to prevent damage.

H. OBLIGATIONS OF THE CONTRACTOR:

1. **GENERAL** - The contractor is obligated to furnish all materials and personnel necessary to complete the fence installation as well as primer and paint application in accordance with the contract specifications. Other sections in these contract specifications give more specific information on the materials required. **The contractor maintains responsibility for an entire contract even if another organization is providing part of the equipment and personnel.**
2. **PROOF OF INSURANCE** - The contractor must provide proof of insurance as specified for equipment owned, leased, rented, subcontracted, or otherwise utilized by the contractor and for all personnel hired, subcontracted, or otherwise employed by the contractor.
3. **SUBMITTALS** - The contractor may be required to submit the following items:

Shop Drawings: Layout of fences and gates with dimensions, details and finishes of components and accessories.

Product Data: Manufacturer's catalog cuts indicating material compliance and specified options.

Samples of materials: (e.g., fabric, wires, color, and accessories)

4. **START DATE** - The contractor must contact Dorothy Krupa, Park Manager, seven (7) days prior to the onset of work.
5. **FIELD EXPENSES AND TRANSPORTATION** - Costs incurred in the security, operation and maintenance of all contractor equipment are the responsibility of the contractor.
6. **ELECTRICAL GROUNDING:** - Grounding when required shall be the responsibility of a licensed electrical contractor and included in this contract.
7. **CONTRACTOR REFERENCES:**
 - A. ASTM A36 Standard Specification for Carbon Steel
 - B. ASTM A780 Standard Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings
 - C. ASTM B221 Standard Specification for Aluminum and Aluminum Alloy Bars, Rods, Wire Profiles and tubes
 - D. ASTM F552 Standard Terminology Relating to Chain Link Fencing
 - E. ASTM F567 Standard Practice for Installation of Chain Link Fence
 - F. ASTM F626 Standard Specification for Fence Fittings
 - G. ASTM F668 Standard Specification for Polyvinyl Chloride (PVC) and Other Organic Polymer-Coated Steel Chain Link Fence Fabric
 - H. ASTM F900 Standard Specification for Industrial and Commercial Swing Gates
 - I. ASTM F934 Standard Specification for Industrial and Commercial Swing Gates
 - J. Tolerances: ASTM current specification and tolerances apply and supersede any conflicting tolerance.

I. CONTRACTOR PERSONNEL:

1. **PROJECT SUPERVISOR** - The contractor must designate one of its personnel to serve as the on-site project supervisor and to represent the company in all contractual matters that require prompt attention.
2. **MSDS** - The contractor must keep a copy of the Material Safety Data Sheet (MSDS) available on site throughout the course of the project for materials requiring an MSDS which are supplied by the manufacturer for the project.
3. **OPERATIONAL PROBLEMS** - The contractor must determine what, if any, operational problems exist with any product. These problems may include handling, storage or transportation difficulties. To the best of the Bureau of State Parks' knowledge at this time, no adverse characteristics exist with any of the listed products. It is the contractor's responsibility to insure a trouble-free operation with the material purchased. If a delivered product presents operational problems, it must be immediately replaced.

4. **CONTAINER DISPOSAL** - The contractor is responsible for the proper disposal of all refuse and paint containers as specified on the product label at the contractor's expense.
5. **SAFETY** - The contractor must follow all safety procedures that apply to handling the specific materials being used.

J. INSURANCE REQUIREMENTS:

The contractor shall purchase and maintain, at its expense, the following types of insurance, issued by companies acceptable to the Commonwealth.

- a. Workmen's Compensation Insurance for all of the Contractor's employees and those of any subcontractor, engaged in work at the site of the project as required by law.
- b. Public Liability and Property Damage Insurance to protect the Commonwealth, the Contractor, and any and all subcontractors from claims for damages for personal injury (including bodily injury), sickness or disease, accidental death and damage to property including the loss of use resulting from any property damage, which may arise from the activities performed under the Contract, or the failure to perform under the Contract, whether such performance or non-performance be by the Contractor, by any subcontractor, or by anyone directly or indirectly employed by either. The minimum amounts of coverage shall be \$250,000 per person and \$1,000,000 per occurrence for bodily injury, including death, and \$250,000 per person and \$1,000,000 per occurrence for property damage. Such policies shall be occurrence rather than claims-made policies and shall not contain any endorsements or any other form designated to limit and restrict any action by the Commonwealth, as an additional insured, against the insurance coverage in regard to work performed for the Commonwealth.
- c. Automotive Liability Insurance including bodily injury and property damage insurance, to protect the Commonwealth and the contractor from claims arising out of the performance of the contract. The amount of bodily injury insurance shall not be less than \$300,000 for injury to or death of persons in a single occurrence. The amount of property damage insurance shall not be less than \$300,000 per occurrence of property damage.
- d. Environmental Impairment Liability Insurance - covering environmental impairment caused by negligence in an amount of \$500,000 per occurrence. This specific type of insurance may be substituted by any riders to any of the aforementioned insurance, provided it services the same benefit and purpose. These provisions must cover the Commonwealth, as well, for any liability.
- e. Subcontractors/Leased Equipment - If any work under this contract is subcontracted or otherwise performed by anyone other than the contractor or performed with equipment subcontracted or leased by the contractor, the contractor must provide liability insurance as specified under its own policy(s) in order to provide coverage for any persons and/or equipment so subcontracted or leased or the contractor must provide evidence that the specified liability insurance for any persons and/or equipment so subcontracted or leased is provided for under a policy(s) maintained by the subcontractor or lessor.

Prior to commencement of the work under the Contract and at each insurance renewal date during the term of the Contract, the Contractor shall provide the Commonwealth with current certificates of insurance. These certificates or policies shall name "The Commonwealth of PA-DCNR" as an additional insured and shall contain a provision that the coverage's afforded under the policies will not be cancelled or changed

until at least thirty (30) days written notice has been given to the Commonwealth. These certificates shall include the location and a brief description of the work to be performed under the contract.

The Commonwealth shall be under no obligation to obtain such certificates from the Contractor(s). Failure by the Commonwealth to obtain the certificates shall not be deemed a waiver of the Contractor's obligation to obtain and furnish certificates. The Commonwealth shall have the right to inspect the original insurance policies.

K. BID AWARD:

The bidder shall complete the following for award of the bid:

- complete the electronic Invitation for Bid to be found at www.pasupplierportal.state.pa.us;
- complete and electronically attach the Reciprocal Limitations Act Requirements form (attached), and,
- **attach to the IFB a copy of your valid Self Certified Small Business certificate.**

Bid will be awarded based on the lowest total sum.

The contract quantities herein are estimated only and may increase or decrease depending on the needs of the Department. The Contractor shall be paid at the unit price for actual work performed.

NOTE: The Department will only accept out to two (2) decimal points when entering your "Unit Price" bid.

L. PAYMENT TERMS:

Payment shall be on a reimbursement basis for actual services performed and will be processed upon satisfactory completion and fulfillment of the contract.

M. INVOICES:

All invoices for this contract **MUST** be sent to the following address:

Commonwealth of Pennsylvania - PO Invoice
PO Box 69180
Harrisburg, PA 17106

All invoices **MUST** contain the Purchase Order Number, as well as SAP Vendor Number on the invoice. Failure to provide this will result in a delay of payment.

N. RECEIPT AND OPENING OF BIDS:

- A. Bids must be submitted via the PA Supplier Portal, to be found at www.pasupplierportal.state.pa.us. Faxed bids and mailed bids **will not** be accepted.
- B. No responsibility will be attached to any employee of the Department for the premature opening of, or the failure to open, a bid not properly addressed and identified, or for any reason whatsoever.

O. BID RESULTS:

Bidders can obtain bid results by accessing www.emarketplace.state.pa.us. The bids will be posted no later than three (3) business days following the bid opening. The results are the apparent bidder and all bids are under review until final award of the purchase order.

Attachments