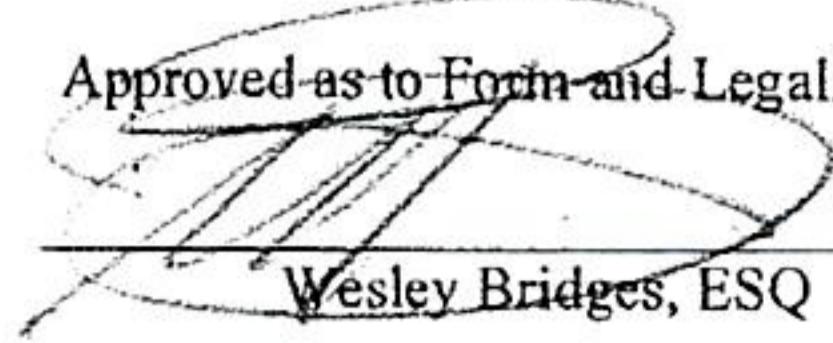


RESOLUTION

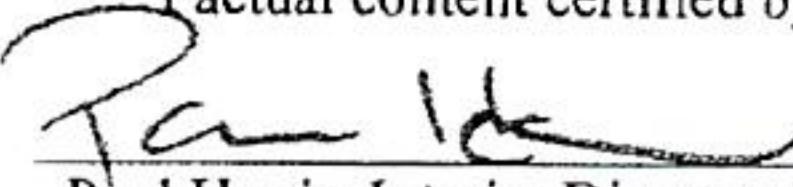
No. 25-284AUG 07 2025

Date of Adoption

Approved as to Form and Legality


Wesley Bridges, ESQ CITY ATTORNEY

Factual content certified by



Paul Harris, Interim Director, Recreation, Natural Resources & Culture

Councilman/woman _____ presents the following Resolution:

SPONSORED BY: _____

RESOLUTION ACCEPTING A BID AND AWARDING A CONTRACT TO NATIONAL FENCE SYSTEMS, INC., FOR REMOVAL AND DISPOSAL OF EXISTING CHAIN-LINK OR ORNAMENTAL FENCE AND THE PROVISION AND INSTALLATION OF CHAIN-LINK OR ORNAMENTAL PICKET FENCE AND GATES AT VARIOUS SITES THROUGHOUT THE DEPARTMENT'S PARKS AND RECREATION SYSTEM FOR THE DEPARTMENT OF RECREATION, NATURAL RESOURCES, AND CULTURE FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF AWARD IN AN AMOUNT NOT TO EXCEED \$450,000.00 WITH THE OPTION TO EXTEND ONE (1) ADDITIONAL YEAR- BID2025-49

WHEREAS, five (5) sealed bids were received on May 22, 2025, at 11:00 am, by the Purchasing Agent for Removal and Disposal of Existing Chain-Link or Ornamental Fence and the Provision and Installation of Chain-Link or Ornamental Picket Fence and Gates at Various Sites throughout the Department's Parks and Recreation System for the Department of Recreation, Natural Resources and Culture for a period of one (1) year from the date of award; and

WHEREAS, the work includes but is not limited to the removal and legal disposal of existing fence, mesh, posts, rails, concrete foundations, gates and hardware and the provision and installation of the new fence, gates and hardware. This work shall also include the restoration of any lawn areas or paving disturbance during construction. The chosen contractor shall be responsible for securing the existing site while under contract/construction; and

WHEREAS, the low bid of National Fence Systems, Inc., 1033 Route 1, Avenal, New Jersey 07001 is made pursuant to advertisement, be and is hereby accepted, as the lowest and legally responsible bidder complying with the terms and specifications on file in the Division of Purchasing; and

WHEREAS, funds in an amount not to exceed \$450,000.00 have been certified to be available in the following account numbers: C-04-20-70-008I-002 (\$100,000.00), C-04-24-70-048J-002 (\$100,000.00), G-SS-22-70-180B-299 (\$61,615.22), C-04-07-70-102E-004 (\$48,957.53), C-04-20-70-008I-006 (\$47,661.00), G-SS-22-40-210B-299 (\$28,900.47), C-04-24-70-048I-004 (\$27,877.81), C-04-16-70-035E-002 (\$23,614.46), C-04-07-70-028A-001 (\$5,471.63), C-04-03-70-094L-000 (\$1,925.05), C-04-06-70-086E-006 (\$3,454.00), C-04-13-70-018E-001 (\$466.78), C-04-20-70-008J-001 (\$56.05). The contract shall be awarded for a period of one (1) year from the date of award with the option to extend one (1) additional year contingent upon the temporary and final adoption of CY' 2026.

NOW, THEREFORE, IT IS RESOLVED, by the City Council of the City of Trenton that the Mayor is hereby authorized to execute a contract with National Fence Systems, Inc., 1033 Route 1, Avenal, New Jersey 07001 for Removal and Disposal of Existing Chain-Link or Ornamental Fence and the Provision and Installation of Chain-Link or Ornamental Picket Fence and Gates at Various Sites throughout the Department's Parks and Recreation System for a period of one (1) year in an amount not to exceed \$450,000.00; for the Department of Recreation, Natural Resources, and Culture for the said purposes in the manner prescribed by law.

MOTION: <i>Frисby</i>					SECOND: <i>F. Figueroa Kettensburg</i>									
	Aye	Nay	Abstain	Absent		Aye	Nay	Abstain	Absent		Aye	Nay	Abstain	Absent
EDWARDS	✓				FRISBY	✓				GONZALEZ	✓			
FELICIANO	✓				HARRISON				✓					
FIGUEROA KETTENBURG	✓				WILLIAMS	✓								

This Resolution was adopted at a Meeting of the City Council of the City of Trenton on

AUG 8 7 2025

John May Gonzales
President of Council

John May Gonzales
City Clerk

A G R E E M E N T
C I T Y O F T R E N T O N , N E W J E R S E Y
B I D 2 0 2 5 - 4 9
R E S . N O . 2 5 - 2 8 4

AWARDED TO

NATIONAL FENCE SYSTEMS, INC.

This Agreement, entered into this 8TH Day of AUGUST, 2025 between the City of Trenton, a municipal corporation of the State of New Jersey, ('CITY') **319 EAST STATE STREET, TRENTON, NEW JERSEY 08608** and **NATIONAL FENCE SYSTEMS, INC., 1033 ROUTE 1, AVENAL, NEW JERSEY 07001** ("Contractor"), witnesseth that:

WHEREAS, Contractor has bid, proposed or offered to furnish and deliver to the City the materials, supplies and/or goods to perform the services **IN AN AMOUNT NOT TO EXCEED \$450,000.00 FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF AWARD WITH THE OPTION TO EXTEND ONE (1) ADDITIONAL YEAR CONTINGENT UPON THE TEMPORARY AND FINAL ADOPTION OF CY' 26.**

FIRST, A. Contractor, under the penalty expressed in the bond hereinafter mentioned, will furnish, supply and deliver to the City of Trenton the following materials, supplies or services as authorized by:

RESOLUTION ACCEPTING A BID AND AWARDING A CONTRACT TO NATIONAL FENCE SYSTEMS, INC., FOR REMOVAL AND DISPOSAL OF EXISTING CHAIN-LINK OR ORNAMENTAL FENCE AND THE PROVISION AND INSTALLATION OF CHAIN-LINK OR ORNAMENTAL PICKET FENCE AND GATES AT VARIOUS SITES THROUGHOUT THE DEPARTMENT'S PARKS AND RECREATION SYSTEM FOR THE DEPARTMENT OF RECREATION, NATURAL RESOURCES, AND CULTURE FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF AWARD IN AN AMOUNT NOT TO EXCEED \$450,000.00 WITH THE OPTION TO EXTEND ONE (1) ADDITIONAL YEAR- BID2025-49

B. The contract shall submit with contracts with the following:

UPDATED CERTIFICATE OF INSURANCE WITH SIGNED CONTRACTS

Such performance by Contractor will be in strict accordance with the terms and conditions of the bid specifications, the bid response and the authorizing resolution, which are included above and is incorporated by reference. Additionally, Contractor will furnish good and ample security in a sum equal to the said contract price for the said articles and services.

SECOND. The City of Trenton will pay Contractor the total sum mentioned herein when the appropriate Department Director has executed a certification that the said articles or services have been furnished, delivered, and accepted in full conformity to the aforementioned specifications and offer or proposal.

THIRD. The City of Trenton reserves the right to order a greater or lesser quantity, not to exceed twenty-five percent, of any or all of the articles named in the said offer or proposal than is stated therein, and it is distinctly agreed between the said parties that the price quoted in the offer or proposal of Contractor shall be regarded as a standard of prices, and the total sum mentioned herein as the consideration of this contract shall not be regarded as limiting the right of the City of Trenton to order such greater or lesser quantity.

FOURTH. In the event of the failure of Contractor to deliver to the City of Trenton, such articles or perform such work or labor as described in such quantities as ordered at the time stated for such delivery by the City of Trenton, or in the event that such articles as are delivered or work and labor performed do not meet the specifications or standards, as established by the City of Trenton for such articles or acceptance of such work and labor, then such delivery shall be rejected by telephone or written notice to the Agent or address indicated by the Contractor and by simultaneous and like notice to his surety. Additionally, if Contractor or his surety does not cure the default within the time set by the said Agent on behalf of the City of Trenton, then the said Agent on behalf of the City, shall have the right to procure such services or purchase

such articles in their place and stead in the open market as are needed for replacement, and from the best source available in the judgment of the said Agent and to charge the expense of such articles or work performed to Contractor and to deduct the amount thereof from any moneys due or to become due to Contractor by virtue of this agreement. Provided, however, that the surety on the bond of Contractor for the faithful performance of this agreement shall be first notified of the necessity for such replacement and given the same time allowance for such replacement as is given Contractor.

FIFTH. This contract shall not be amended, assigned or subcontracted without the consent of the City of Trenton in writing (if the total compensation payable thereunder shall thereby exceed \$2,500.00, approval by Resolution of the Governing Body shall be required), and any breach of this convenient shall authorize the City of Trenton, by its said Agent, to declare this contract null and void and to refuse to make any further payments thereunder to Contractor.

SIXTH. In case of any conflict between the provisions of this agreement and of any of the provisions of the specifications, the latter shall govern and control.

Applicable for Public Construction Contracts Only: "Dispute Resolution Procedures (NJSA 40A:11-50). Disputes arising under this contract shall be subject to mediation or non-binding arbitration at the sole discretion of the City of Trenton, before a construction industry mediator or arbitrator or panels thereof. The City of Trenton shall have the right to select a third party to mediate any disputes arising under this agreement and the mediation shall be conducted informally in a manner decided upon by the mediator".

SEVENTH. Contractor hereby agrees to pay all workmen as a minimum the prevailing wages rate in accordance with Chapter 150 of the New Jersey Laws of 1963, Prevailing Wages on Public Contracts and U.S. Department of Labor Wage Rates with the higher rate for any given occupation being the governing rate, and N.J.S.A. 10:2-1 et seq., prohibiting discrimination in employment on public contracts.

EIGHTH. During the performance of this contract, the contractor agrees as follows:

a. CONTRACTOR or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, or sex. CONTRACTOR will take affirmative action to ensure that such applicants are recruited and employed, and that employees are treated during employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, gender identity or expression, affectional or sexual orientation, disability, nationality or sex. Such action shall include, but not be limited to the following: employment, up-grading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause. (N.J.S.A. 10:5-33; N.J.A.C. 17:27-3.4)

b. CONTRACTOR or subcontractor, where applicable will, in all solicitations or advertisements for employees placed by or on behalf of CONTRACTOR, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, gender identity or expression, affectional or sexual orientation, disability, nationality or sex. (N.J.S.A. 10:5-33; N.J.A.C. 17:27-3.4)

c. CONTRACTOR or subcontractor where applicable, will send to each labor union

or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the agency contracting officer, advising the labor union or workers' representative of CONTRACTOR's commitments under this act and shall post copies of the notice in conspicuous places available to employees and applicants for employment. (N.J.S.A. 10:5-33; N.J.A.C. 17:27-3.4)

d. THE CONTRACTOR or subcontractor, where applicable, agrees to comply with any regulations promulgated by the Treasurer pursuant to P.L. 1975, c.127, as amended and supplemented from time to time. (N.J.A.C. 17:27-3.4)

Note: A public works contract for a subcontractor with a total work force of four or fewer employees or for a contractor or subcontractor performing under an existing Federally approved or sanctioned affirmative action program shall contain as mandatory language only paragraphs a, b, and c above, and the contract shall not contain any other mandatory language prescribed by N.J.A.C. 17:27. (N.J.A.C. 17:27-3.4) (c)

e. All bidders and all contractors who are negotiating for a procurement or service contract with the public agency which is not subject to a federally approved or sanctioned affirmative action program are required to submit to the public agency, prior to or at the time the contract is submitted for signing by the public agency (in accordance with N.J.A.C. 17:27-4.3 promulgated by the Treasurer pursuant to P.L. 1975, c. 127), one of the following three documents:

1. Appropriate evidence that the contractor is operating under an existing federally approved or sanctioned affirmative action program; or

2. A certificate of employee information report approval issued in accordance N.J.A.C. 17:27-4; or

3. An initial employee information report consisting of forms provided by the affirmative action office and completed by the contractor in accordance with N.J.A.C. 17:27-4. (N.J.A.C. 17:27-3.3) (a)

f. CONTRACTOR or subcontractor agrees to attempt in good faith to employ minority and female workers consistent with the applicable county employment goals prescribed by N.J.A.C. 17:27-5.2 promulgated by the Treasurer pursuant to P.L. 1975, c. 127, as amended and supplemented from time to time or in accordance with a binding determination of the applicable county employment goals determined by the affirmative action office pursuant to N.J.A.C. 17:27-5.2 promulgated by the Treasurer pursuant to P.L. 1975, c. 127, as amended and supplemented from time to time. (N.J.A.C. 17:27-5.3)(a) (1)

g. CONTRACTOR or subcontractor agrees to inform in writing appropriate recruitment agencies in the area, including employment agencies, placement bureaus, colleges, universities, labor unions, that it does not discriminate on the basis of age, creed, color, national origin, ancestry, marital status or sex, gender identity or expression, and that it will discontinue the use of any recruitment agency which engages in direct or indirect discriminatory practices. (N.J.A.C. 17:27-5.3) (a) (2)

h. CONTRACTOR or subcontractor agrees to revise any of its testing procedures, if necessary, to assure that all personnel testing conforms with the principles of job-related testing, as established by the statutes and court decisions of the State of New Jersey, and as established by applicable Federal law and applicable Federal court decisions. (N.J.A.C. 17:27-5.3) (a) (3)

i. CONTRACTOR or subcontractor agrees to review all procedures relating to transfer, upgrading, downgrading and layoff to ensure that all such actions are taken without regard to age, creed, color, national origin, ancestry, marital status, or sex, and conform with the applicable employment goals, consistent with the statutes and court decisions of the State of New Jersey, and applicable Federal law and applicable Federal court decisions. (N.J.A.C. 17:27-5.3) (a) (4)

j. CONTRACTOR agrees that in the hiring of persons for the performance of work under this contract or any subcontract hereunder, or for the procurement, manufacture, assembling or furnishing of any such materials, equipment, supplies or services to be acquired under this contract, no contractor, nor any person acting on behalf of such contractor or subcontractor, shall, by reason of race, creed, color, national origin, ancestry, marital status, gender identity, or expression, affectional or sexual orientation or sex, discriminate against any person who is qualified and available to perform the work to which the employment relates. (N.J.S.A. 10:2-1) (a)

k. No contractor, subcontractor, nor any person on his behalf shall, in any manner, discriminate against or intimidate any employee engaged in the performance of work under this contract or any subcontract hereunder, or engaged in the procurement, manufacture, assembling or furnishing of any such materials, equipment, supplies or services to be acquired under such contract, on account of race, creed, color, national origin, ancestry, marital status, gender identity or expression, affectional or sexual orientation or sex. (N.J.S.A. 10:2-1) (b)

l. There may be deducted from the amount payable to the contractor by the contracting public agency, under this contract, a penalty of \$50.00 for each person for each calendar day during which such person is discriminated against or intimidated in violation of the provisions of the contract. (N.J.S.A. 10:2-1) (c)

m. This contract may be canceled or terminated by the contracting public agency, and all money due or to become due hereunder may be forfeited, for any violation of this section of the contract occurring after notice to the contractor from the contracting public agency of any prior violation of this section of the contract. (N.J.S.A. 10:2-1) (d)

n. The parties of this contract do hereby agree that the provisions of N.J.S.A. 10:2-1 through 10:2-4, dealing with discrimination in employment on public contracts, and the rules and regulations promulgated pursuant thereto, are hereby made a part of this contract and are binding upon them. (N.J.A.C. 13:6-1.1)

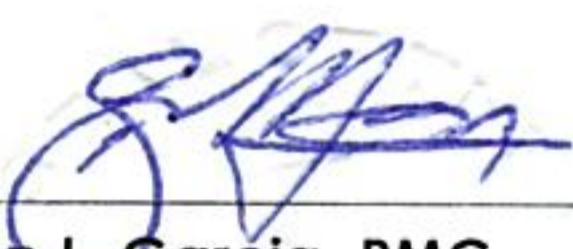
o. Contractor and subcontractor agree and guarantee to afford equal opportunity in performance of the contract and, except with respect to affectional or sexual orientation, and gender identity or expression in accordance with an affirmative action program approved by the State Treasurer. (N.J.S.A. 10:5-32 and 10:5-35) (a)

p. The parties of this contract do hereby agree that the provisions of Title II of the Americans with Disabilities Act of 1990, 42 U.S.C. Section 12101 et seq., which prohibits discrimination on the basis of disability by public entities in all services programs and activities provided or made available by public entities, and the rules and regulations promulgated pursuant thereto, are made a part of this contract. The contractor agrees to conduct all activities in compliance with the provisions of Title VI of the Civil Rights Act of 1964, the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and the U.S. Department of Labor's regulations at 29 CFR Parts 31, 32 and 34.

Contractor shall cooperate with any state or federal reviews aimed at determining compliance with nondiscrimination laws and regulations authorized by State Law and expressly specified herein.

IN WITNESS WHEREOF, the City of Trenton has caused this agreement to be signed by the Mayor of the City of Trenton and its corporate seal to be hereto affixed, attested by the City Clerk, and Contractor has likewise caused this agreement to be executed the day and year first above written.

CITY OF TRENTON

Attest: 
Brandon L. Garcia, RMC
Municipal Clerk

Date

and


W. Reed Gusciora, Esq. Mayor


Date

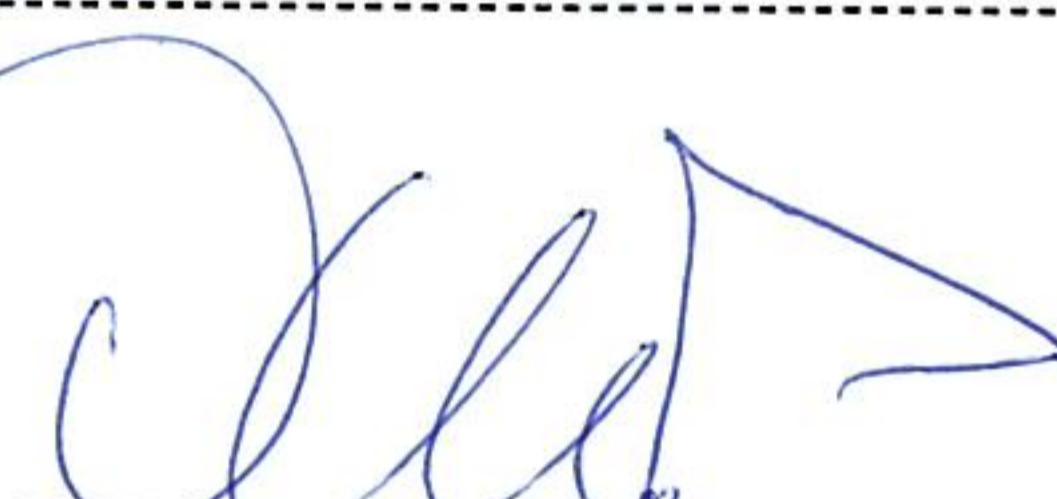
NATIONAL FENCE SYSTEMS, INC., 1033 ROUTE 1, AVENAL, NEW JERSEY 07001

CONTRACTOR SIGNATURE

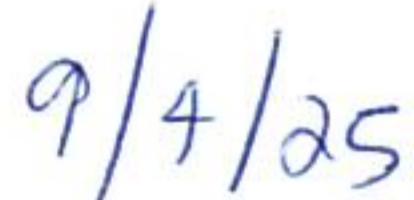
Attest:


Secretary

Date


President

DATE


9/4/25

**FENCE SPECIFICATIONS
FOR
PARKS & RECREATION
COST PROPOSAL FORM
PROPOSERS MUST COMPLETE**

Remove and dispose existing fence: per lin. Ft. \$ 6.00

Ornamental Steel Fence

- 4' high fence: per lin. Ft. \$ 103.07
- 6' high fence: per lin. Ft. \$ 118.50
- 8' high fence: per lin. Ft. \$ 135.16
- 8' high x 14' wide double swing gate on 4" posts: \$ 7340.00 /gate
- 8' high x 12' wide double swing gate on 4" posts: \$ 5800.00 /gate

Chain-link Fence

- 4' high fence: per lin. Ft. \$ 43.44
- 6' high fence: per lin. Ft. \$ 46.67
- 8' high fence: per lin. Ft. \$ 53.63
- 8' high x 14' wide double swing gate on 4" posts: \$ 5990.00 /gate
- 8' high x 12' wide double swing gate on 4" posts: \$ 5590.00 /gate

Bollard and Chain:

Bollard: \$ 1,690.00 /bollard

Chain: \$ 22.10 /lin. Ft.

Miscellaneous Repairs:

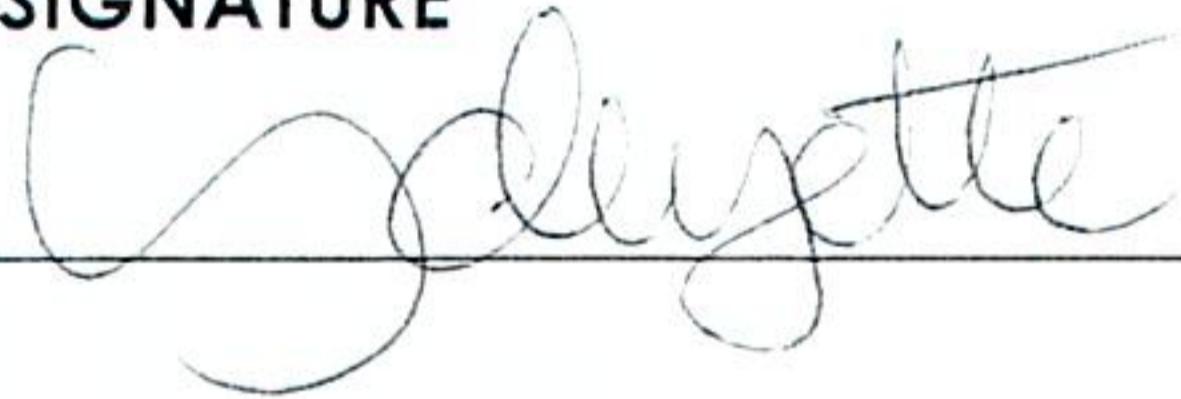
Per Diem Rate at Prevailing Wage: \$ 3000.00 /day

CONTRACT AWARD

Upon opening bids, pricing shall remain firm for a period of sixty (60) calendar days. If the award is not made within sixty (60) calendar days, proposers may hold their bid consideration beyond sixty days or until the contract is awarded.

Check here if you are willing to hold the pricing consideration beyond sixty days or until the contract is awarded.

Check here if you are not willing to hold the pricing consideration beyond sixty days or until the contract is awarded.

AUTHORIZED SIGNATUREA handwritten signature in black ink, appearing to read "Jennifer Dwyer".

**FENCE SPECIFICATIONS
FOR
PARKS & RECREATION**

The City of Trenton, Department of Recreation, Natural Resources, & Culture is requesting formal sealed bids for Removal & Disposal of Existing Chain-Link or Ornamental Fence & the provision & installation of chain-link or ornamental picket fence & gates at various sites throughout the department's Parks and Recreation system on an as needed basis. The contract shall be awarded to one (1) or multiple vendors whichever is in the best interest of the City of Trenton. The contract shall be awarded for a period of one (1) year with an option to extend one (1) additional year. This contract shall be awarded to the lowest, responsible, responsive bidder/s.

The removal and legal disposal of the existing fence, mesh, posts, rails, concrete foundations gates and hardware and the provision and installation of the new fence, gates and hardware as detailed and specified (or approved equal). This work shall also include the restoration of any lawn areas or paving disturbance during construction. The chosen contractor shall be responsible for securing the existing site while under contract/construction.

The contractor is responsible for familiarizing themselves with the site to understand existing conditions. In general, the proposed fencing will be installed at approximately the same location as the existing fence scheduled to be removed. The selected contractor shall be responsible for coordinating with the City of Trenton representative to confirm the final location on-site.

Miscellaneous Repairs:

Miscellaneous Repairs may be handled on a per diem basis.

Per diem rate consists of 3-man crew, box truck, generator, standard fence tools as needed per specific job, overhead and profit.

Any additional materials needed (wire, ties, posts, etc.) to be billed as needed per job with corresponding paperwork to show bill of materials.

Bollard and Chain:

Bollards to be 6^{5/8} posts with galvanized undercoat and black powder coat finish. To be dug in soil, set in concrete footings and filled with concrete.

Chain to be galvanized steel chain approx. ½" link size minimum 1900 load capacity mounted to bollard with eyebolt.

The City reserves the right to award this contract to one or multiple bidders.

**FENCE SPECIFICATIONS
FOR
PARKS & RECREATION**

TECHNICAL SPECIFICATIONS

The scope of work to be conducted under this bid is detailed below. All work is to be conducted in accordance with state and local requirements and applicable federal, state and local regulations. The scope of work includes two alternate tasks that will be implemented based on the availability of adequate funding. The tasks to be completed are as follows:

Task 1: Site Preparation, Planning and Permitting

Task 2: Fence, Post and Gate Installation

Bidder will provide lump sum and/or unit costs as required. Costs will include all materials, labor, subcontractors and other costs to complete the tasks provided for in this section.

Task 1 – Site Preparation, Planning and Permitting

The contractor shall provide a work schedule for all work to be completed including site preparation and installation. The Contractor shall secure and pay for all necessary permits for this work.

Site preparation will consist of the following sub-tasks:

- Clearing and grubbing any brush, scrub or trees in the current path of the new fence.
- Utility mark out
- New fence and gate location marked out

Task 2 – Fence, Post and Gate installation; Crushed Stone Driveway

The fence to be provided and installed will consist of the following materials:

- 42 to 72-inch high, black, aluminum, decorative picket fence with flat top, 3-4 horizontal rails depending on fence height, with round decorative inserts between the two top rails; and
- 2-inch matching line, corner and gate posts; and
- One, 12-foot-wide double gate

Any soil or fill generated from the excavation of fence, gate and line posts will be raked into the existing vegetative cover within the confines of the site. Any bricks, concrete or other oversized inorganic material will be stockpiled in a central location and removed from the site and disposed of by the site contractor. The contractor shall restore all surfaces which have been impacted by his operations to a condition at least equal to that encountered before commencing work, to be approved by the owner.

**FENCE SPECIFICATIONS
FOR
PARKS & RECREATION**

1.01 WORK INCLUDED

Secure the site by constructing, as necessary, where other fencing or other barricades do not already exist, a permanent 6-foot-high 2-inch mesh, galvanized steel, chain-link fence with double-swing gates across all vehicle access points from the public roads onto the site. A combination of new 6-foot-high chain-link fencing constructed by the Contractor and the use of in-place, existing fence sections or other barricades may be used, as long as the integrity of the existing fence sections and/or barricades is determined by the city to be adequate.

1.03 QUALITY ASSURANCE

Standards and Practices Referenced by this Section:

1. ASTM F567 Standard Practice for Installation of Chain Link Fence
2. ASTM A817 Specification for Metallic-Coated Steel Wire for Chain Link Fence Fabric and Marcellled Tension Wire
3. ASTM F626 Specification for Fence Fittings
4. ASTM F900 Specification for Industrial and Commercial Swing Gates
5. ASTM A780 Standard Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings
6. ASTM F1083 Specification for Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures

Fence contractor: Company has at least 5 years' experience and demonstrated successful experience installing similar projects and products in accordance with ASTM F567.

Tolerances: Current published edition of ASTM specifications tolerances apply. ASTM specification tolerances supersede any conflicting tolerance.

1.04 SUBMITTALS

Qualifications and credentials of fence contractor.

Shop drawings: Site plan showing layout of fence location with dimensions, location of gates and opening size, cleared area, elevation of fence, gates, footings and details of attachments.

Provide copies of all permit applications, copies of all draft and final permit documents.

PART 2 – PRODUCTS

2.01 CHAIN LINK FABRIC

Furnish one-piece fabric widths. Wire size includes zinc or aluminum coating. Provide all new undamaged and unrusted stock.

**FENCE SPECIFICATIONS
FOR
PARKS & RECREATION**

1. Zinc-Coated Steel Fabric: ASTM A392 hot dipped galvanized before or after weaving.
2. Class 1 - 1.2 oz. / ft² z
3. Size: 2-inch mesh, 11-gauge wire.

2.03 TENSION WIRE

Metallic Coated Steel Marcellled Tension Wire: 7 gauge (0.177 in.) Marcellled wire complying with ASTM A817, 1. Type II Zinc-Coated, ASTM A817 Class 4 - 1.2 oz./ft² (366 g/m²)

2.04 FITTINGS

Material: Comply with ASTM F626. Provide hot-dipped galvanized iron or steel, minimum 3/16-inch thick, to suit manufacturer's standards (No aluminum).

1. Zinc Coating: Galvanize steel fence fittings and accessories.
2. All nuts, bolts, and other fastening devices shall be cadmium plated beyond nuts and shall be preened. Bolts shall not protrude more than 1/8-inch.

Tension and Brace Bands: Galvanized pressed steel complying with ASTM F626, minimum steel thickness of 12 gauge (0.105 in.), minimum width of 3/4 in. and minimum zinc coating of 1.20 oz. /ft² . Secure bands with 5/16 in. galvanized steel carriage bolts.

Terminal Post Caps, Line Post Loop Tops, Rail and Brace Ends, Boulevard Clamps, Rail Sleeves: In compliance to ASTM F626, pressed steel galvanized after fabrication having a minimum zinc coating of 1.20 oz. /ft². Provide weather-tight closure cap for each post. Provide line post caps with loop to receive top rail. Attached post caps with a No. 9 Parker-Kalon, Type U, cadmium plated, 5/8-inch drive screw or equal.

Truss Rod Assembly: In compliance with ASTM F626, 3/8 in. diameter steel truss rod with a pressed steel tightener, minimum zinc coating of 1.2 oz. /ft², assembly capable of withstanding a tension of 2,000 lbs.

Tension Bars: In compliance with ASTM F626. Galvanized steel one-piece length 2 in. (50 mm) less than the fabric height. Minimum zinc coating 1.2 oz. /ft². Provide one bar for each gate and end post, and two for each corner and pull post.

2.05 DOUBLE LEAF SWING GATES

Provide Double Leaf Swing Gates for existing openings across all vehicle access, location to be determined with CRA Representative.

Galvanized steel pipe welded fabrication in compliance with ASTM F900. Gate frame members 1.900 in. OD (48.3 mm). ASTM F 1083 schedule 40 galvanized steel pipe. Frame members spaced no greater than 8 ft. apart vertically and horizontally.

**FENCE SPECIFICATIONS
FOR
PARKS & RECREATION**

Welded joints are protected by applying zinc-rich paint in accordance with ASTM Practice A780.

Positive locking gate latch, pressed steel galvanized after fabrication. Galvanized malleable iron or heavy gauge pressed steel post and frame hinges. Provide a lockable drop bar and gate holdbacks with double gates.

Match gate fabric to that of the fence system.

Gateposts per ASTM F1083 schedule 40 galvanized steel pipe. 2.875 in. O.D., 5.79 lb./ft.

2.06 CONCRETE

Concrete for post footings shall have a 28-day compressive strength of 2,500 psi.

PART 3 - EXECUTION

3.01 CLEARING FENCE LINE

Survey, clear, grub, grade and remove debris for the fence line or any required clear areas adjacent to the fence and gates.

Layout area to install fences and double-swing gates. Do not commence installation without written approval of the marked-out fence line by the CRA Representative.

3.02 FRAMEWORK INSTALLATION

Posts: Posts shall be set plumb in concrete footings in accordance with ASTM F567. Minimum footing depth, 24 in. plus an additional 3 in. depth for each 1 ft. increase in the fence height over 4 ft. Minimum footing diameter four times the largest cross section of the post up to a 4.00" dimension and three times the largest cross section of post greater than a 4.00" dimension. Top of concrete footing to be at grade crowned to shed water away from the post. Line posts installed at intervals not exceeding 10 ft. (3.05 m) on center.

1. Protect the portion of posts above ground from concrete splatter. Place concrete around posts and vibrate or tamp for consolidation. Check each post for vertical and top alignment and hold in position during placement and finishing operations.
2. Where rock occurs, the Contractor has the option of coring through rock and setting the posts in concrete, or tack welding posts to a galvanized steel flange which in turn shall be expansion bolted to the rock. In either case, it is the Contractor's responsibility to provide and maintain a sturdy, rigid, construction fence throughout the life of the project.

Top rail: Install lengths of rail continuous through the line post. Splice rail using top rail sleeves minimum 6 in. long. Rail shall be secured to the terminal post by a brace band and rail end. Bottom rail or intermediate rail shall be field cut and secured to the line posts using boulevard clamps or brace band with rail end.

**FENCE SPECIFICATIONS
FOR
PARKS & RECREATION**

Terminal posts: End, corner, pull and gate posts shall be braced and trussed. The horizontal brace rail and diagonal truss rod shall be installed in accordance with ASTM F567.

Tension wire: Shall be installed 4 in. up from the bottom of the fabric. Fences without top rail shall have a tension wire installed 4 in. down from the top of the fabric. Tension wire to be stretched taut, independently and prior to the fabric, between the terminal posts and secured to the terminal post using a brace band. Secure the tension wire to each line post with a tie wire.

3.03 GATE INSTALLATION

Swing Gates: Installation of swing gates and gateposts in compliance with ASTM F 567. The direction of swing shall be inward. Gates shall be plumbed in the closed position having a bottom clearance of 3 in., grade permitting. Hinge and latch offset opening space shall be no greater than 3 in. in the closed position. Double-gate drop bar receivers shall be set in a concrete footing minimum 6 in. diameter, 24 in. deep. Gate leaf holdbacks shall be installed for all double gates.

3.04 NUTS AND BOLTS

Bolts: Carriage bolts used for fittings shall be installed with the head on the secure side of the fence. All bolts shall be peened over to prevent removal of the nut.

3.05 CLEAN UP

Clean Up: The area of the fence line shall be left neat and free of any debris caused by the installation of the fence.

3.06 MAINTENANCE OF FENCING

Maintain the fencing during the life of the Contract. All debris accumulations along the fencing shall be removed. Any settlement, movement or misalignment of the fencing shall be corrected by resetting of posts and fabric at the completion of work.

Make all repairs of damages to the fence resulting from vandalism.

PART 4 – MEASUREMENT AND PAYMENT

The Work specified in this Section shall be measured for payment as indicated below:

1. Payment for Chain-Link Fence will be made at the corresponding unit price per linear foot (LF) and shall constitute full compensation for all labor, material, equipment and services to complete the requirements of Section 32 3113.
2. Payment for Double-Swing Gates will be made at the corresponding unit price per each gate and shall constitute full compensation for all labor, material, equipment and services to complete the requirements of Section 32 3113.

