



City of Concord, New Hampshire

PURCHASING DIVISION

COMBINED OPERATIONS & MAINTENANCE FACILITY

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ADDENDUM NUMBER ONE

B11-12

OLD SUNCOOK ROAD LANDFILL FENCE CONSTRUCTION

TO ALL FIRMS OF RECORD: This addendum forms a part of and modifies the bidding and contract documents and technical specifications for the project named above. The following changes, additions and clarifications are made to the original Contract Documents:

1. Technical Specifications, Section 02800-Chain Link Fence and Gate. Replace the Section in its entirety with the attached Section, noted Revised 9/13/11. Revisions include modifying the treatment of the fabric, posts and hardware to be just galvanized rather than PVC coated galvanized steel.

PLEASE BE ADVISED THAT THE CONTRACTOR MUST ACKNOWLEDGE RECEIPT OF ADDENDUM ONE ON THE SIGNATURE PAGE OF THE BID/ITEMIZED BID SHEETS (PAGE 41) .

CITY OF CONCORD, NEW HAMPSHIRE

DOUGLAS B. ROSS

PURCHASING MANAGER

SECTION 02800
CHAIN LINK FENCE AND GATE

PART 1 – GENERAL

1.01 REFERENCES

- A. Examine all Drawings and all other Sections of the Specifications for requirements therein affecting the work of this trade.
- B. Coordinate work with that of all other trades affecting, or affected by work of this Section. Cooperate with such trades to assure the steady progress of all work under the Contract.

1.02 SCOPE

- A. The work of this Section consists of all work as indicated on the Drawings and/or specified herein and includes, but is not limited to, the following:
 - 1. Chain Link Fence and Gate

1.03 RELATED WORK

- A. Examine all Drawings and all other Sections of the Specifications for requirements affecting the work described below.

1.04 SUBMITTALS

- A. Request for Deviations from the Specifications: If any deviations from the specifications are proposed, contractors must include written description and reasons for deviations.
- B. Shop Drawings: Prior to ordering the materials listed below, submit Shop Drawings and/or product literature to Landscape Architect for approval as follows:
 - 1. Coordinated Shop Drawings shall show required sizes, dimensions, sections, profiles of units, the arrangement of and provision for jointing, anchoring, fastening, and supports, and other necessary details for delivery and lifting devices and reception or installation of other work.
 - 2. Do not order materials until Engineer's approval has been obtained.
 - a. Chain link fence and tamper-resistant gate: Shop Drawings and product literature for all components.
- C. Construction and Fabrication of Samples
 - 1. Contractor shall construct and/or fabricate samples for the following items in accordance with approved Shop Drawings:
 - a. Chain link fence: Minimum 3 sections

2. All items shall be complete (in place). The quality of workmanship shall be approved by the Engineer before any permanent construction is started. If the original sample is not approved, the Contractor shall provide additional samples as required, at no increased cost to the Owner, until an approved sample is obtained. The approved sample shall become the standard for the entire job. The samples can be constructed at a location that will become part of the finished work.
 3. Obtain Engineer's acceptance of samples before proceeding with the final work.
 4. If the first samples are not approved, the Contractor shall provide additional samples until an approved sample is obtained for each of the above at no additional charge to the Owner.
 5. If approved, the sample shall become part of the final work.
- D. Contractor shall submit to the Owner a notarized certificate of compliance from the galvanizer with all galvanizing and color galvanizing requirements including ASTM number and weight of coatings in ounces per square foot. Certificate of compliance shall also contain the following:
1. Sole Source Responsibility: Include statement that galvanizer accepts sole source responsibility for coatings under this Section. Galvanizer who does not accept this responsibility is not acceptable and will be rejected.
 2. Quality Assurance: Include evidence that galvanizer meets requirements of ANSI Q90.
 3. Certification of Compliance with Current Environmental Regulations: Galvanizer shall certify that coatings proposed for use comply with applicable environmental regulations. Contractor and galvanizer shall be responsible for penalties assessed by governmental or environmental authorities for coatings that do not comply with current environmental regulations. All coatings shall be lead-free.

1.05 QUALITY ASSURANCE

- A. Source Limitations: Provide products of the same kind, from a single source.
- B. Compatibility of Options: When the Contractor is given the option of selecting between 2 or more products for use on the Project, the product selected shall be compatible with products previously selected, even if previously selected products were also options.

1.06 PRODUCT HANDLING AND STORAGE

- A. Stored materials shall be adequately protected against moisture by (1) stacking in such a manner as to allow a complete circulation of air under each stack, and (2) covering each stack, top and sides with a waterproof paper or membrane. Coverings shall remain in place at all times, when not working from the particular stack.

1.07 EXAMINATION OF CONDITIONS

- A. The Contractor shall fully inform himself/herself of existing conditions of the site and shall be fully responsible for carrying out all work required to fully and properly execute the work of the Contract, regardless of the conditions encountered in the actual work. No

claim for extra compensation or extension of time will be allowed on account of actual conditions inconsistent with those assumed.

- B. The Contractor shall be solely responsible for judging the potential need for storing materials temporarily and/or rehandling items prior to final installation.

1.08 STANDARDS

- A. Except as modified by governing code and by the Contract Documents, comply with applicable provisions and recommendations of the following:
 1. Standard Specifications: state of New Hampshire Standard Specifications for Highways and Bridges, latest edition.
 2. AASHTO: American Association of State Highway and Transportation Officials, latest edition.
 3. ASTM: American Society for Testing and Materials, latest edition.
 4. City of Concord Standards

1.09 QUALIFICATIONS

- A. Site improvement work shall be assigned to experienced and qualified subcontractors with a minimum of five (5) years experience employing experienced workmen who will work under the full-time supervision of a qualified foreman with a minimum of five (5) years of experience on projects comparable to this project. Submit references for subcontractors for approval of Owner.

PART 2 - PRODUCTS

2.01 CHAIN LINK FENCE AND GATES

- A. General:
 1. Chain link fence, framework and fittings shall be in accordance with AASHTO M181. The fence fabric shall be imprint branded at each link with the manufacturer's trade name, country of origin (USA) gauge size and tensile strength. All pipe shall be Schedule 40 imprinted with trade name. All fittings shall be marked to show trade name.
 2. The manufacturer shall supply a notarized certification that all materials used have been tested and fully comply with the specifications specified herein.
 3. Sleeves if required for fence shall be galvanized steel pipe Schedule 40 ASTM 120 sizing as required to accommodate posts.
- B. Chain Link Fence Fabric:
 1. Galvanized chain link fabric shall be No. (9) gauge with a uniform square mesh measuring approximately two (2") inches between its parallel sides, woven out of wire which shall consist of a good commercial quality Type I, Class D, galvanized steel. The minimum breaking strength of the coated wire shall be 1100 pounds. Bottom of fence fabric shall be two (2") inches plus or minus ¼" above the finished grade. Fabric shall be furnished with selvages knuckled on both ends.

- C. Framework:
1. Line corner and terminal posts, top, bottom or intermediate rails shall be Schedule 40 galvanized steel conforming to ASTM-120 latest requirements
- D. Top, Bottom, and Middle Rails:
1. All rails shall be 1 5/8" O.D. galvanized steel pipe, of twenty one foot (21') lengths joined by six inch (6") long sleeves, rail to run continuously along top of fence. Bottom and middle rails shall conform to specifications for top rail and shall be joined at line posts with boulevard clamps.
- E. Line Posts:
1. Line posts shall be galvanized steel pipe sized as shown on the Drawings. Posts shall be of sufficient length to allow for installation to a depth of approximately three (3') feet below grade level and shall be spaced in the line of fence not further apart than ten (10') feet or as shown on the Drawings. The fabric shall be fastened to the line posts by means of matching nine (9) gauge ties, maximum twelve inches (12") on center.
 2. Provide galvanized steel sleeves as required, sized to accommodate posts.
- F. Corner and Terminal Posts:
1. Corner and terminal posts shall be sized as shown on the Drawings and shall be galvanized steel. Each post shall be of sufficient length to allow for required depth below grade level. Fabric shall be attached to the terminal post by means of thermal fusion coated PVC tension bars and held by tension bands, maximum twelve (12") inches on center.
 2. Stretches of fence more than 500 feet in length shall have one intermediate terminal pull post with braces in two directions for every 500 feet. Corner posts shall be placed at every change in direction. All corners and terminal posts shall be braced galvanized steel 1 5/8" O.D. brace rail, weighing 1.35 pounds per foot minimum eight feet (8') long, with a diagonal 3/8" truss rod, and attachment to the first ensuing line post.
 3. Provide galvanized steel sleeves as required, sized to accommodate posts.
- G. Gates:
1. Provide double swing gate as shown on the drawings.
 2. Gate frame shall be constructed as detailed on the drawings or approved shop drawings.
- H. Fittings:
1. All fittings and other appurtenances shall be hot dip galvanized pressed steel, malleable or cast steel. Painted fittings are not acceptable.
- I. Concrete for footings shall be 3,000 psi 28-day air entrained concrete.

PART 3 – EXECUTION

3.01 CHAIN LINK FENCE AND GATES

- A. Locate and install all posts in concrete footings, plumb and true to line and grade and with continuous concrete mowing strip as shown on the Drawings and in accordance with approved Shop Drawings. Height of fence shall be as shown on the Drawings.

- B. Top and bottom edge of fence fabric shall have knuckled edges. Fabric shall be stretched uniformly taut and as tight as possible, true to line and grade and complete in all details. Install tension bars at corners. Bands and clips to tie fabric to rails and posts shall be spaced a maximum of twelve inches on center.
- C. All posts shall have continuous horizontal braces at the top, middle, and bottom. In addition, all end and corner posts shall be braced to the nearest line post with center brace rails. Outside sleeve type top rail couplings shall be placed a maximum of twelve (12) inches from posts.
- D. Chain link fence shall have continuous top and bottom rails.
- E. All chain link fence shall be fastened on the outside of the posts unless directed otherwise by the Owner. The fabric shall be properly stretched and securely fastened to the posts, and between posts the top and bottom of the fabric shall be fastened to the horizontal braces as specified, herein.
- F. The fabric shall be fastened to end and corner posts with tension bars and stretcher bar bands spaced at one-foot (1') intervals.
- G. All fabric shall be aligned so that top row of the fabric mesh is tied to the top rail every twelve (12") inches on center and so that the bottom of the fabric mesh stands two (2") inches above the finish grade and that the bottom row of the fabric mesh is tied to the bottom rail every twelve (12") inches on center. All fabric shall be tied to the middle rail at twelve inches (12") on center.
- H. Fabric shall be fastened to line posts, rails and braces with nine gauge (0.148) annealed galvanized steel fused vinyl wire, spaced at twelve (12") inches on center. Ties to be twisted.

END OF SECTION