

**SECTION 02 91 00
TEMPORARY FENCE**

PART 1 GENERAL

1.01 SUMMARY

- A. As part of this Contract, the Contractor shall provide and install construction fencing surrounding the construction site, according to provisions and requirements listed in this Section. The area to be enclosed shall include space for access to the staging, temporary storage of materials and equipment, Construction Waste Management requirements, and any other construction related activities.
- B. The Contractor must submit a sketch to the Construction Manager for approval, showing the location of the proposed site fence and all gates and sidewalk closures, prior to its erection. Location of the fence, and the location, size and number of gates may be revised at the discretion of the Authority's Representative.
- C. The Contractor shall obtain the necessary permits for the location and erection of the site enclosure and any other protective structures from the agencies having jurisdiction over its location and erection.
- D. Secure gates shall be provided as the only access to the site. Any person entering shall sign in and out and shall list the name of the company or agency they represent and the reason for the visit. A sign shall be posted outside of all gates stating, "No Trespassing – For Authorized Personnel Only". Such signs shall also be posted along the fence at intervals of not less than 75'.
- E. The Contractor shall assume all responsibility for erection of the fence and proper location, as well as maintenance, including repairing damage due to vandalism, for the duration of the Project.
- F. The site will need to conform to all noise reduction requirements of the City Department of Environmental Protection (DEP) and NYC Local Law 113. The following detail description is for security only. The security fence may also serve as the noise reduction barrier, and the Contractor will be responsible for revising the materials listed herein to bring the fence into full compliance, with materials, details, and design as approved by the Authority's Representative/ Authority and DEP.

1.02 SUBMITTALS

- A. Shop drawing indicating layout of temporary fencing, location and size of gates, existing pavement and roads, access to fire hydrants and hose connections, and other site-specific conditions. Prepare drawing after site survey and verification of existing conditions. Shop drawing shall be approved by Authority's Representative.

PART 2 - PRODUCTS

2.01 TEMPORARY CHAIN LINK FENCE

- A. A standard chain link fence system with steel pipe top and bottom rails secured to steel pipe posts set in concrete footings.
- B. Line posts shall be 2" O.D., standard weight steel pipes, hot dipped galvanized, spaced not more than 8 feet apart O.C. End and corner posts shall be 2 -1/2" O.C. standard weight steel pipes, hot dipped galvanized. Diagonal bracing shall be installed in the bays at the corners of the fence and such other places as may be required by the Authority's Representative.
- C. The top and bottom rails shall be 1-5/8" O.D. standard weight steel pipe, hot dipped galvanized, and shall be coupled with outside sleeves coupling to allow for expansion and contraction and shall pass through holes provided in fittings on all tops of line posts.
- D. The fabric shall be chain link 8'-0" high, woven from copper bearing steel wire not less than No. 11 gauge, hot dipped galvanized after weaving, 2-inch mesh, the selvages to be knuckled or barbed at the top, with one strand of barbed wire, and at the bottom the selvages may be either

knuckled or barbed, and shall be one single width for the height of the fence. Fences shall not be painted.

- E. The chain link fabric of the fence shall be fastened securely to the top and bottom rails at intervals of not more than 2 feet O.C. and to all line posts at intervals of not more than 14 inches. Ties shall be of high tensile strength galvanized wire 9 gauge, or clamps, tension strips or galvanized bands.
- F. Fittings shall be 3/16" thick prepared steel, hot dipped galvanized, with galvanized steel nuts and bolts as required. Bolts shall be located on the inside of the fence, with only smooth bolt heads exposed to the outside. Couplings shall be standard weight galvanized steel as described above.
- G. Outside face of posts and rails shall all be in the same plane. Upon completion, the posts are to be plumb and in proper alignment and the fabric shall be stretched uniformly and as tight as possible without pulling the material out of shape.

2.02 GATES

- A. Provide personnel and vehicular access gates of the quantity and size as indicated on the Shop Drawings or required for functional access to site.
 - 1. Fabricate of same material as used for fencing.
 - 2. Vehicle gates:
 - a. Minimum width: 20 feet to allow access for emergency vehicles.
 - b. Operable manually by one person.

PART 2 EXECUTION

4.01 LAYOUT

- A. Installation of temporary fencing shall not deter or hinder access to existing and new hose connections and fire hydrants.
 - 1. Maintain 3 feet diameter clear space around fire hydrants.
 - 2. Where fire hydrant or hose connection is blocked by fencing, provide access gate.
 - a. Access: Provide gates for personnel, delivery of materials, and access by emergency vehicles.
 - b. Field verify location with Authority's Representative.

4.02 INSTALLATION OF TEMPORARY CHAIN LINK FENCE

- A. The Contractor shall furnish and install temporary chain link fence required to restrict access to work areas as shown on the Contract Drawings.
- B. Prior to installation, meet at project site to review areas of placement and determine areas of potential interference and conflict. Coordinate and document fencing layout for the Authority's Representative review and approval.
- C. Posts shall be set to the proper specified depths in the earth or in core drilled sidewalk or asphalt (parking lots). Posts shall be set plumb, properly aligned. After posts have been set in place, top rail shall be fastened with the ties to line and corner posts. Top rails shall be attached to corner and line posts. Sections of top rail shall be coupled with outside sleeve couplings that allow for expansion and contraction. Rails shall be parallel to the finished grades. Top rails shall be furnished for all panels for all fences. When sidewalk or parking lot is core drilled for fence post installation the Contractor must patch the holes with the surrounding material once the fence is dismantled.
- D. After the frame work is complete, new galvanized chain link mesh shall be installed. The galvanized fabric shall be stretched uniformly and tightly. The galvanized fabric shall then be attached to all line and corner posts with tie wires at intervals not to exceed 12 inches and to top, bottom and intermediate rails with tie wires at intervals not to exceed 18 inches. Galvanized fabric shall remain in tension after pulling force is released.

4.03 MAINTENANCE AND REMOVAL

- A. Maintain fencing in good condition. If damaged, immediately repair.

- B. Relocate with the approval or direction of the Authority's Representative, any sections of the fence as may be necessary to permit installation of work under this Contract.
- C. Remove temporary fencing upon completion of Work or when no longer required. Backfill holes and compact, sodded smooth with surrounding landscaping. Holes in pavement shall be surfaced to match existing paving. Repair damage caused by installation of temporary fencing. Any damage to the site incurred during removal of the fence shall be repaired at no expense to the Authority.

END OF SECTION 02 91 00