

STANDARD SPECIFICATION

SECTION 01531

TEMPORARY FENCING

	<u>Page</u>
<u>PART 1 - GENERAL</u>	
1.01 Description of Work	2
1.02 Submittals	2
1.03 Workmanship	2
 <u>PART 2 - PRODUCTS</u>	
2.01 Materials	2
 <u>PART 3 - EXECUTION</u>	
3.01 Grade Preparation	3
3.02 Installation	3
3.03 Maintenance	4
3.04 Removal	4

STANDARD SPECIFICATION

SECTION 01531

TEMPORARY FENCING

PART 1 - GENERAL

1.01 DESCRIPTION OF WORK

- A. The extent and locations of temporary fencing are indicated on the contract drawings.
- B. Included in the work is the erection, maintenance, and dismantling of temporary fencing.
- C. The completed fence installation shall provide a secure and continuous barrier. The Contractor shall perform all miscellaneous work required to meet this requirement.

1.02 SUBMITTALS

- A. Submit manufacturer's technical data for posts, fabric, gates, and other components necessary for the complete installation of temporary fencing.
- B. Submit shop drawings where required by the Sandia Delegated Representative (SDR).

1.03 WORKMANSHIP

The installer shall use workmen experienced in fence erection for the installation, maintenance, and removal of temporary fencing.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Used fencing material in good condition, of the type specified may be used for temporary fencing if pre-bid approval is granted by SDR. Such requests for approval must be made in writing at least two weeks prior to bid due date to allow for material inspection.

- B. Line Posts: All line posts shall be galvanized steel pipe section 1.9" o.d., weighing 2.7 pounds per foot (standard 1-1/2" pipe).
- C. Fabric: Wire fabric shall be a one piece 8' high 11 gauge galvanized chain link fabric woven of commercial quality steel wire with a uniform square mesh of 2" \pm 1/8" minimum between its parallel sides unless otherwise directed by SDR. Fabric shall be galvanized after weaving by the hot dip process with 1.2 ounces minimum of zinc per square foot of wire surface.
- D. Outriggers or Extension Arms: Provide each post with a galvanized steel extension arm aimed 45 degrees toward the construction site. Arms shall withstand a weight of 200 pounds or greater, and be equipped to carry three strands of barbed wire.
- E. Gates:
 - 1. Interior temporary gates shall be equal in construction quality to the temporary fencing.
 - 2. Exterior gates and corner posts shall be standard 3" pipe (3-1/2" o.d.) All posts shall be heavily coated with zinc by the hot-dip process after fabrication. All posts shall be of such length that they may be embedded in concrete foundations to a depth of not less than 24". Gate frames shall be 2" o.d. high carbon-steel tubing welded at all joints to provide rigid water-tight construction. Gate fabric shall be one piece 8' high, 11 gauge galvanized chain link. Gates shall be 8' high with vertical posts extended 14" to take three strands of barbed wire. Contractor shall furnish hinges, latches, stops and keepers necessary for the complete erection and smooth working of the gates and posts.
- F. Barbed Wire: Provide 12-1/2 gauge two-strand barbed wire with 4 point aluminum barbs spaced not more than 5" apart.
- G. Concrete: Concrete shall have a minimum 28-day strength of 2500 psi.
- H. Other: Provide all clamps, braces, hinges, latches, ties, post caps, tension bands, loop caps, sleeves, ties, wire, and other items necessary for a complete installation, manufactured by the same maker of the fencing and posts.

PART 3 - EXECUTION

3.01 GRADE PREPARATION

Remove all weeds, refuse and debris along indicated fence line. Rough grade ground surface as required to receive bottom of fence fabric within specified tolerance.

3.02 INSTALLATION

- A. Line posts shall be set 2'-6" below grade with 8'-0" above grade and spaced a maximum of 10'-0" o.c. Posts may be driven or set in holes, backfilled and tamped. Concrete plugs approximately 12" square and 4" to 8" deep (top flush with grade) shall be poured around line post if ground is soft or unstable.

- B. Fabric shall extend to within 2" of stable ground. Anchor bottom of fabric to ground at the one third points between line posts with 24" long 3/8" wide rebar driven 20" into ground and secured to the bottom strand of fabric with 11 gauge wire. The fabric shall be installed on the construction area side of the post. The fabric shall be attached to the post 12" o.c. with 9 gauge wire. All wire ties shall be made on the Tech Area side of the fence and tie-wire ends shall be pushed back through the fabric. Wire fabric shall be continuous and stretched taut enough to give a straight and flat appearance.
- C. Outriggers and Barbed Wire:
1. Attached to each post there shall be an outrigger or extension arm. Attach three continuous strands of barbed wire to outriggers, the top strand approximately 12" out from the fence line and 12" above the top of the fabric along the outriggers. Barbed wire shall be continuous and stretched taut.
 2. Above the fabric on each gate attach three strands of barbed wire 8" o.c. Barbed wire shall be stretched taut.
- D. Gates: Provide gates as indicated in the drawings or by the SDR. Install according to manufacturer's installation instructions.

3.03 MAINTENANCE

The Contractor shall be responsible for maintaining the fencing in good condition and appearance from erection to takedown. Damage from any cause shall be reported to the SDR and repaired promptly.

3.04 REMOVAL

Upon completion of work or when authorized, the Contractor shall remove the temporary fence and any concrete plugs completely. Salvageable fence material shall remain the property of the Contractor. Upon removal of the fence posts and plugs, the Contractor shall fill the holes in a manner that will reduce or eliminate any hazardous conditions. Backfill in holes shall be compacted; holes in paving shall be surfaced to match existing paving.

END OF SECTION