

**SECTION 32 31 17****COMPOSITE FENCES & GATES**

Last Updated: November 18, 2015

**Part 1 GENERAL****1.1 SECTION INCLUDES**

- A. Requirements regarding composite fencing and gates on DISTRICT lands or interest in lands.

**1.2 SUBMITTALS**

- A. Drawings: Indicate plan layout, grid, size and spacing of components, accessories, fittings, anchorage, and post section.
- B. Data: Submit manufacturer's installation instructions and procedures, including details of fence and gate installation.

**1.3 MAINTENANCE**

- A. Gates and gate hardware shall be maintained in operable condition by Applicant.
- B. Landscaping features within the swing radius of the gate shall be maintained as to not prohibit full use of the gate.

**Part 2 PRODUCTS****2.1 GENERAL**

- A. Unless otherwise required by city and/or county ordinances, fences and gates shall be six feet in height.
- B. Composite fences and gates shall be Trex or EQUAL approved by DISTRICT.
- C. Vinyl fences are not considered a composite fence for DISTRICT purposes.
- D. Cast-in-place Concrete: Class 3000 minimum. Section 03 30 04.

**2.2 COMPONENTS**

- A. Posts, Pickets, Top Caps, Top Rails, and Bottom Rails and other related fence and gate materials shall be from one manufacturer.

**2.3 GATES**

- A. Provide additional horizontal, vertical, and diagonal members to ensure proper gate operation. Consult manufacturer as necessary.
- B. Accessibility: Gate latches and locks shall be accessible, operable, and lockable from either side of gate.
- C. Types: Man Gates and Truck Gates
  - 1. Man Gates
    - a. Openings shall be a minimum of 3 feet wide.

2. Truck Gates
  - a. Openings shall be a minimum of 12 feet wide.
- D. All gate designs shall be approved by the DISTRICT prior to installation.

#### 2.4 GATE HARDWARE

- A. Gate hardware including, but not limited to, latches, hinges, stops and bolts shall be stainless steel, powder coated black, or galvanized.
- B. Hinges and Pins shall be heavy duty and sized as per manufacturer's recommendations.
- C. For truck gates (double-leaf), a drop rod or stop shall be installed on one leaf, include at least one guide and shall extend into concrete base or similarly solid base.
- D. Dual access (accessible and lockable from either side) latch and lock systems are required on all gates.
  1. The following dual access latch and lock systems are allowed and must be approved in writing by the District prior to installation:
    - a. Lock Thru™ Latch (website: <http://www.hooverfence.com/woodfence/lockthru.htm>);
    - b. Sure Latch (website: <http://surelatch.com/gate-latches/7-lockable-two-way-latch-and-pin.html>);
    - c. or Equal.

### Part 3 EXECUTION

#### 3.1 PREPARATION

- A. Follow all applicable Blue Stakes procedures.
- B. Notify District no less than 48 hours prior to installation. This notification is in addition to Blue Stakes.
- C. Unless otherwise directed, OWNER or OWNER's representative shall be on-site during entire fence installation.

#### 3.2 LAYOUT OF WORK

- A. Under no circumstance shall a fence or gate post be located above the Salt Lake Aqueduct or Point of the Mountain Aqueduct.
- B. Gate location shall be approved by DISTRICT prior to installation.

#### 3.3 INSTALLATION OF POSTS

- A. Posts shall be set true to line and grade.
- B. Set posts in 12-inch diameter concrete footings extending at least 24-inches, but not exceeding 30-inches, into undisturbed natural ground or properly compacted fill.

#### 3.4 INSTALLATION OF FENCE

- A. A typical composite fence installation is found at the end of this specification section as Figure 1 at the end of this specification section.
- B. Fence installation practices should follow manufacturer's

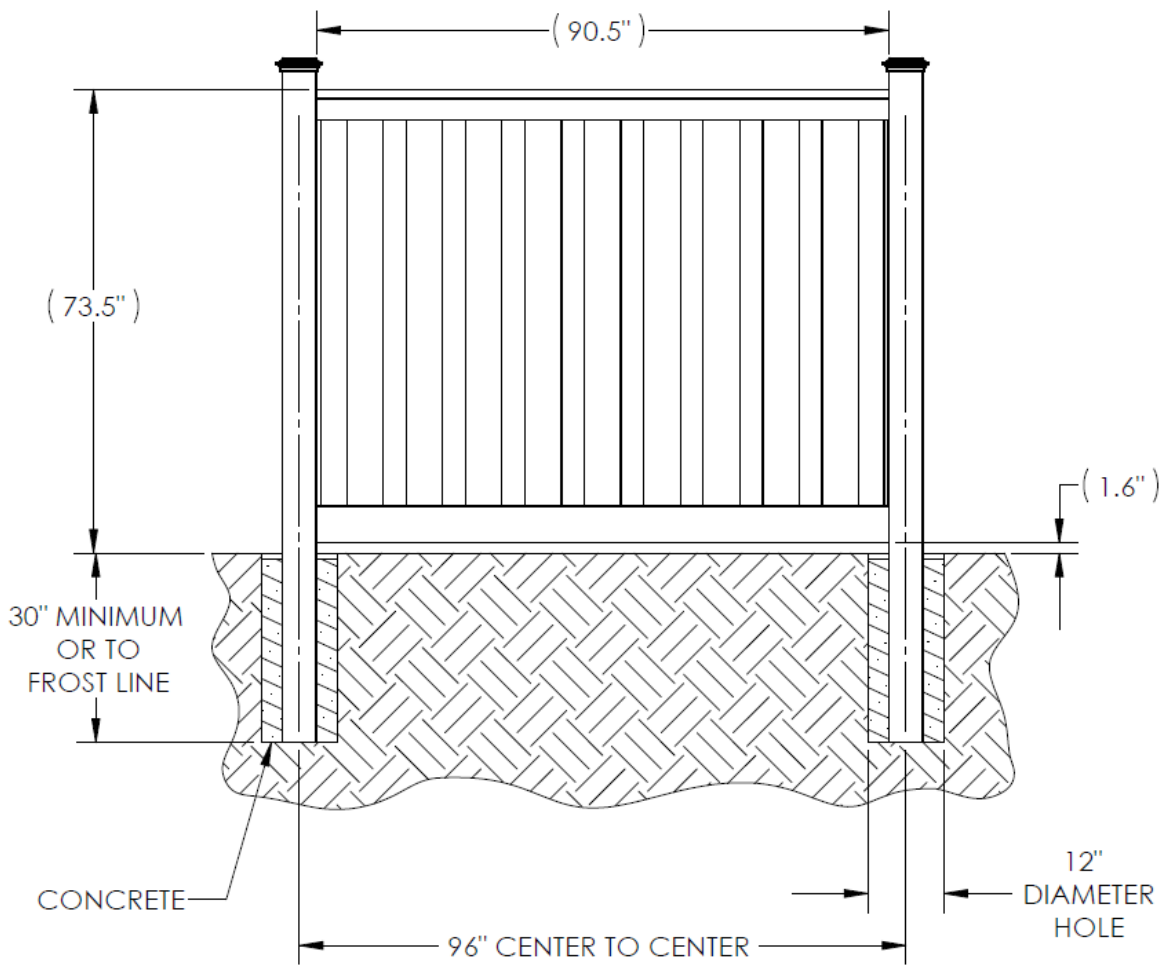
recommendations.

### 3.5 **INSTALLATION OF GATES**

- A. Install gates plumb, level, and secure for full opening without interference. Install ground-set items in concrete for anchorage as recommended by the fence manufacturer. Adjust hardware for smooth operation.
- B. Man Gates:
  - 1. Shall be installed on all enclosed or fenced-in right-of-way (Fee or Easement) areas at Applicant's expense.
  - 2. Shall be configured to allow DISTRICT staff to enter or exit the enclosed area.
  - 3. Once gate is installed coordinate with DISTRICT on lock installation.
- C. Truck Gates:
  - 1. Shall be installed at the request of the DISTRICT and shall be at no additional cost to the DISTRICT
  - 2. Shall open/close in direction as directed by DISTRICT.
  - 3. Shall be configured to allow DISTRICT vehicles to enter the enclosed area to perform inspections, work, etc... and exit to the opposite side of enclosed area, if necessary.
  - 4. Once gate is installed coordinate with DISTRICT on lock installation.
  - 5. Typical gate installation can be found in Figure 2 at the end of this specification section.

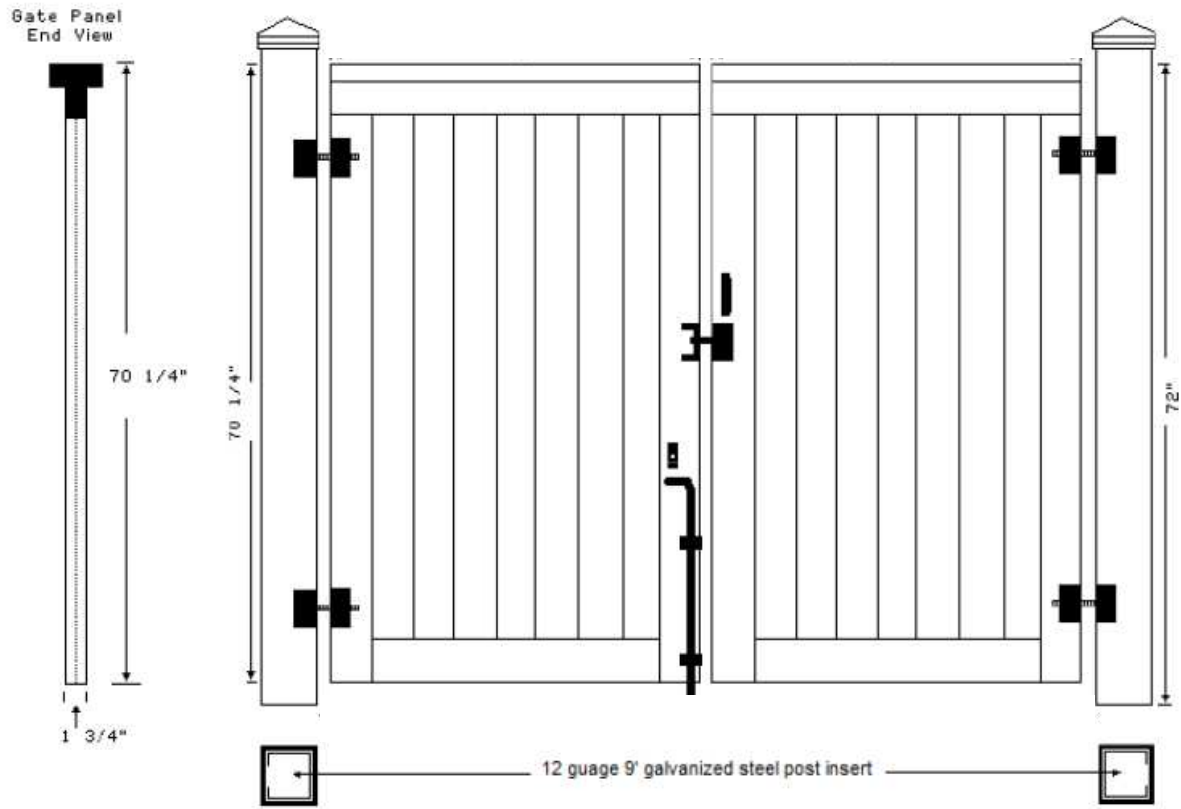
### 3.6 **INSTALLATION OF LATCHES, LOCKS**

- A. Install latch and lock systems as per manufacturer's instructions. Consult with District as necessary.
- B. Locks: District to place District-issued lock on gate latch.



**FIGURE 1 -Typical Composite Fence Detail.**

(Source: Trex Company, Inc., [www.trex fencing.com](http://www.trex fencing.com))



**FIGURE 2 - Typical Composite Gate Detail**

(Source: Trex Company, Inc., [www.trexfencing.com](http://www.trexfencing.com))