



Addendum No. 3
Highland Canal Security Improvements
Truckee River Highlands HOA – Anselmo Dr Area

PWP Bid No.: WA-2019-161

TMWA Capital Project No.: 17-0016

March 20, 2019

The following information, clarifications, changes and modifications are by reference incorporated into the bid documents for the above referenced project. Any work item or contract provision not changed or modified will remain in full force and effect. The bid date and time and construction schedule remain the same.

Modifications

A. Technical Specifications

1. REPLACE Technical Specification Section 32 31 00 Fences and Gates Upgrade by Betafence USA – Industrial Ornamental Fence System with Technical Specification Section 32 31 19 Decorative Metal Fences and Gates included as an attachment to this Addendum.

B. Improvement Plans

1. REPLACE the following plan sheets with the revised version of each plan sheet included as an attachment to this Addendum:
Plan Sheet C6 (7 of 8)
Plan Sheet C7 (8 of 8)

End of Addendum No. 3

SECTION 32 31 19 DECORATIVE METAL FENCES AND GATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Improvement Plans and general provisions of the Contract, including General and Supplementary Conditions.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Demolition and daily removal of existing Home Owner Association (HOA) fencing, posts, and post footings.
 - 2. Security fencing to prohibit public access at the end of each workday.
 - 3. Ornamental fencing system complete with all hardware, posts, rails, swing gates, and accessories necessary for a structurally integrated and aesthetically balanced installation.
 - 4. Concrete footings for posts.

1.3 REFERENCES

- A. American Concrete Institute:
 - 1. ACI 301 Specifications for Structural Concrete
- B. Standard Specifications for Public Works Construction (Orange Book), latest edition:
 - 1. The Standard Specifications for Public Works Construction (Orange Book) is available online at www.rtcwashoe.com utilizing the Engineering & Construction link.

1.4 SYSTEM DESCRIPTION

- A. The Contractor shall supply a Fencing System complete with all hardware, posts, rails, gates, and accessories necessary for a complete and aesthetically balanced installation.
- B. Design Requirements: Fencing system, foundation, and installation shall be designed to withstand 110 mph wind load based on IBC 2018 with Northern Nevada Amendments.

1.5 SUBMITTALS

- A. Product Data: For each product indicated, include manufacturer's recommendations for installation.
- B. Installation Drawings: Show layout, locations, components, materials, dimensions, sizes, weights, finishes of components, installation and operational clearances, gate swings, post sizes, spacing, gate details/dimensions, details of post anchorage, and post attachment/bracing.
- C. Samples: Provide color selections and samples for finishes on fence and accessories if requested by the TMWA Project Representative.
- D. Submit shop drawings to the TMWA Project Representative for approval of fence materials prior to purchasing or ordering.

1.6 QUALITY ASSURANCE

- A. The Contractor shall provide laborers and supervisors who are thoroughly familiar with the type of construction involved and the materials and techniques specified. Review and follow manufacturer's installation instructions.
- B. Provide fence system and gates, as a complete unit produced by a single manufacturer, including necessary erection accessories, fittings, and fastenings.
- C. Field Quality Control to be conducted by the TMWA Project Representative.

1.7 DELIVERY, HANDLING, AND STORAGE

- A. Deliver fence materials, gates, posts, and accessories to project site, completely pre-finished. Upon receipt at the job site, all materials shall be checked to ensure that no damages occurred during shipping. Materials shall be handled and stored properly to protect against damage and theft.
- B. Handle fence components to protect finish coating from any scuffs, abrasion or other damage during unloading and installation. Excessive damage to factory applied coatings will be cause for rejection.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Acceptable Manufacturers:
 - 1. Betafence USA (Guardiar)
 - 2. Ameristar Perimeter Security
 - 3. Fortress Fence Products

2.2 MATERIAL

- A. Fencing System:
 - 1. UpGrade-I Industrial Ornamental Fence System, Pinnacle, 2-Rail style manufactured by Betafence USA (Guardiar)
 - 2. Montage Industrial Steel Ornamental Fence System, Classic, 2-Rail style manufactured by Ameristar Perimeter Security
 - 3. Titan Custom Industrial Fence, Pressed Spear, 2-Rail style manufactured by Fortress Fence Products
- B. Pickets: 1" square, 16-gauge wall thickness
- C. Panels:
 - 1. Panel Width: nominal panel width shall be 8 feet
 - 2. Panel Height: panel height shall be 6 feet
- D. Posts: 3" square, 12-gauge wall thickness.
 - 1. Post Caps: steel, flat style cap. Shall be finished to match fence finish and color.
 - 2. Panel Hangers: shall be stainless or galvanized steel with galvanized, stainless, or zinc plated fasteners. All brackets shall be finished to match fence finish and color.

- E. Swing Gates: Design of gates shall be as depicted in the Improvement Plans.
1. Gate Frames and Infill Panels: Materials as described above.
 2. Frame Members: If necessary, truss rods or cables to be used to prevent gate sag and allow for future adjustment.
 3. Gate Posts and Foundation: Gate posts shall be 4" square x 11-gauge wall thickness.
 4. Hinges: Manufacturer's standard hinges, structurally capable of supporting gate leaf and allow opening and closing without binding. Non-lift-off type hinge design shall permit gate to swing 180° (degrees). Hinge pins shall be non-removable.
 5. Latch: Capable of retaining gate in closed position and have provision for padlock.
 6. Keeper: Provide keeper for each gate leaf over 5 feet wide. Gate keeper shall consist of mechanical device for securing free end of gate when in full open position.

2.3 FACTORY FINISH

- A. Posts, post caps, rails, pickets, and brackets shall be finished with the standard factory finish for each of the listed fence systems. Color shall be Black.

2.4 CONCRETE FOOTINGS

- A. Concrete Footings shall be of the size and dimensions depicted in the Improvement Plans. Concrete Footings shall be Portland Cement Concrete meeting the following specifications: ¾" maximum size aggregate; 4,000 PSI minimum compressive strength at 28 days; 6.25 sacks of Type II cement (588 pounds) per cubic yard of concrete; water/cement ratio of 0.45 maximum; air entrainment shall be 4.5% to 7.5%; slump shall range from 1" minimum to 4" maximum. All materials shall conform to the latest edition of the Standard Specifications for Public Works Construction.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Verify areas to receive fencing with TMWA Project Representative.
- B. Coordinate fence installation with work of other sections listed in these specifications.
- C. Examine conditions under which fencing and gates are to be installed. Notify TMWA Project Representative of unsatisfactory conditions. Do not proceed with work until conditions are satisfactory to the TMWA Project Representative.
- D. Obtain authorization from TMWA Project Representative prior to demolition of any shared fencing.
- E. Demolition and disposal of fence shall be per Standard Specifications for Public Works Construction Section 300.03. Demolished material shall be removed from the site at the end of each workday. All existing fencing and components shall be completely removed as identified in the Improvement Plans, including entire posts and concrete post footings.
- F. The site shall be secured at the end of each workday with temporary construction security fencing. The intent is to keep the public and animals out of the worksite at all times. The Contractor has the option to hire security guard(s) to secure the site during non-working hours and only upon prior approval of the TMWA Project Representative.

3.2 INSTALLATION

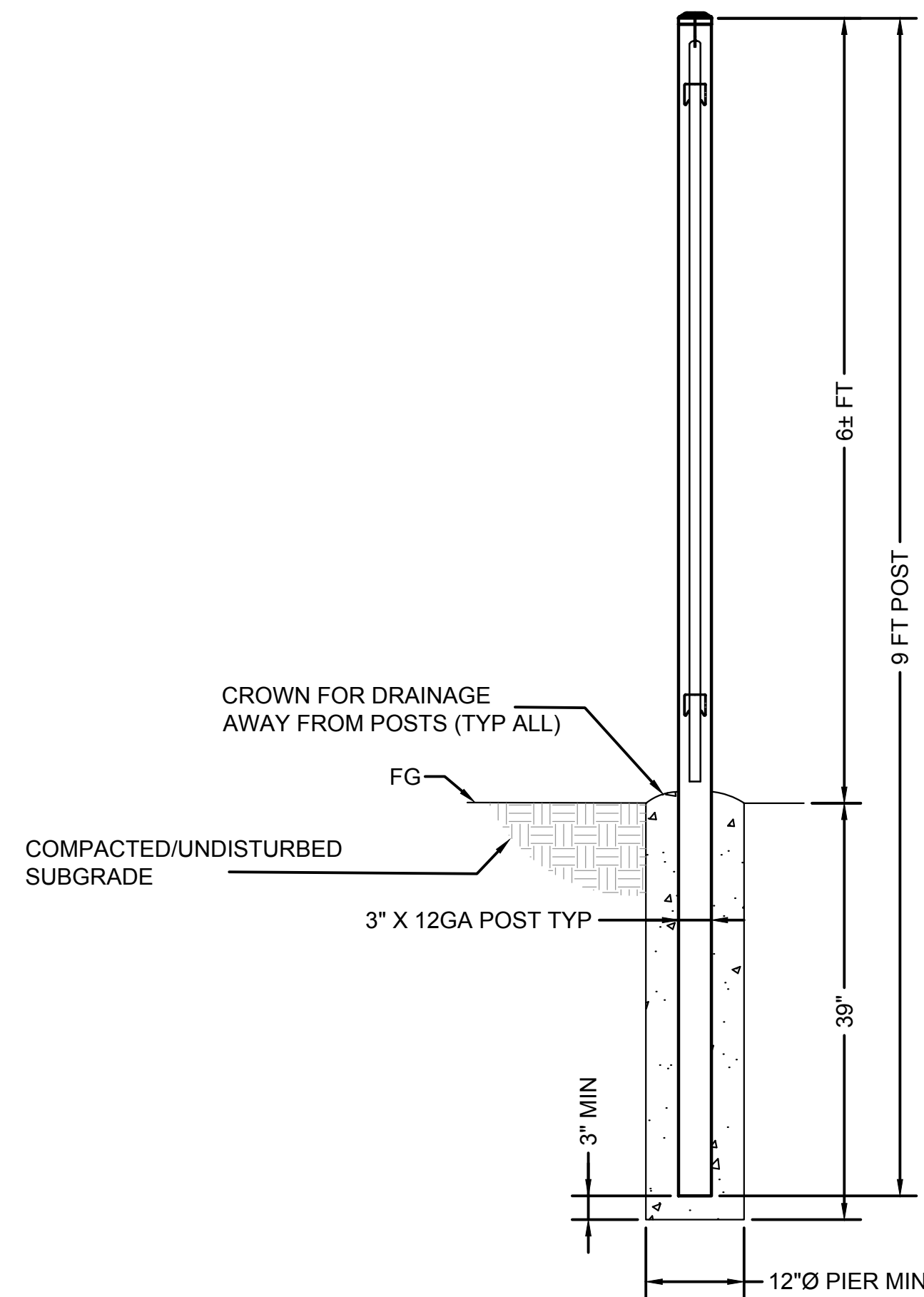
- A. Install fence and gates in accordance with manufacturer's instructions and approved installation drawings.
- B. Handle fence components to protect finish coating from any scuffs, abrasion or other damage during installation. Excessive damage to factory applied coatings will be cause for rejection.
- C. Space posts at dimensions indicated in the installation drawings. Attach fence rails to posts using galvanized, stainless steel, or zinc plated panel hanger brackets supplied by manufacturer. Field welding of panels to posts is unacceptable as it will cause significant damage to the coating.
- D. Concrete Footings: Place concrete around posts and vibrate or tamp for consolidation. Verify that posts are set plumb, aligned, at correct height and spacing, and stabilized in position during placement and finishing operations until concrete is sufficiently cured. Protect portion of posts above ground from concrete splatter.
- E. Install gates level, plumb, and secure for full opening without interference. Attach hardware using tamper-resistant or concealed means. Install ground-set items in concrete for anchorage. Adjust gate to operate smoothly, easily, and quietly throughout entire operational range. Confirm that latches and locks engage accurately and securely without forcing or binding.
- F. Avoid unnecessary cutting, drilling and welding of pre-finished fence components. If necessary to cut, drill, weld, or otherwise modify product due to field conditions, repair factory finish in accordance with item G. below.
- G. Touch-up any necessary areas by lightly sanding; clean area thoroughly, apply a zinc-rich cold galvanizing primer followed by a high-quality acrylic paint to match finish. Touch-up paint shall be supplied by the fence manufacturer. Note: field applied touch-up cannot match the performance of factory applied finishes and should be limited in use.

3.3 CLEANING

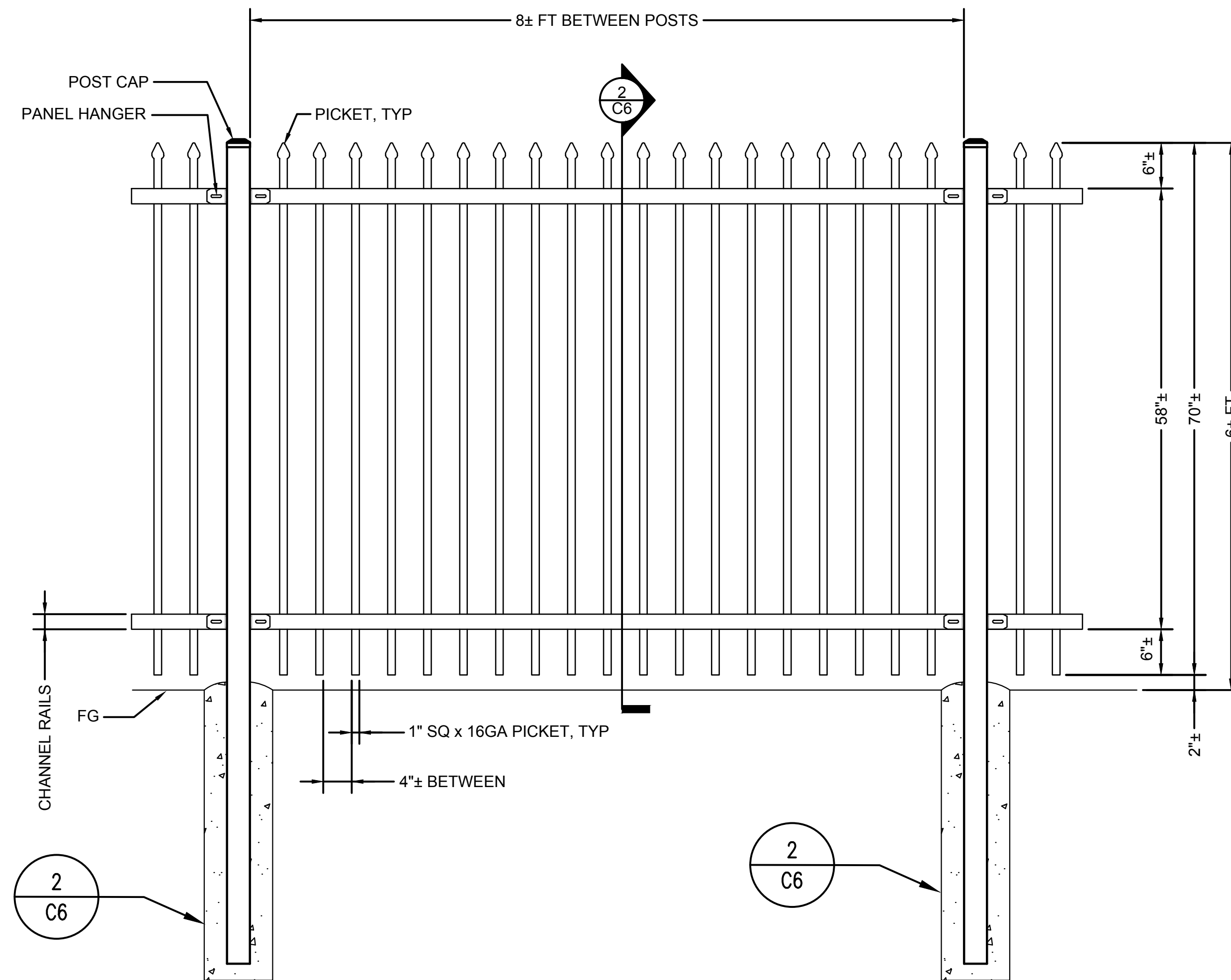
- A. Fence contractor shall remove packing materials and unused product and level uneven areas due to excavations created by fence installations.

END OF SECTION 32 31 19

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2 6'H PANEL SECTION
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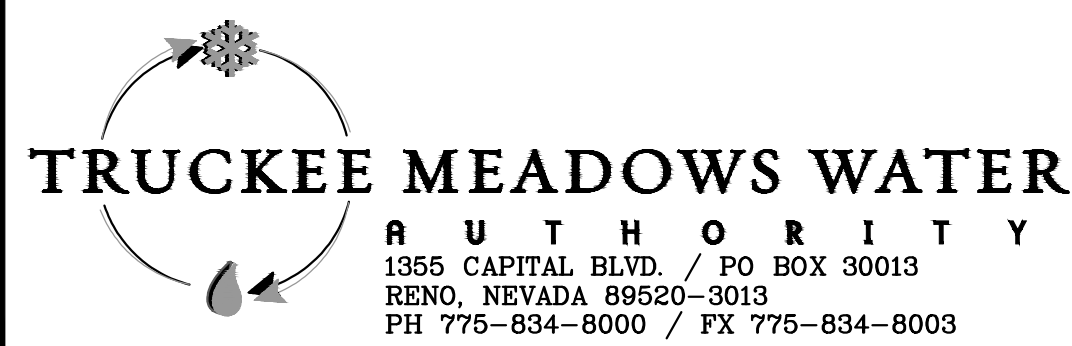


1 6'H PANEL ELEVATION
SCALE: NTS

BID SET

REVISION	DESCRIPTION	BY	APP	DATE
1	ADDENDUM NO. 3	KM	KM	3/20/19

WORK ORDER NO. 17-0016
 DESIGNED _____
 DRAWN _____ KM
 DATE MARCH 20, 2019
 CHECKED _____
 SUBMITTED _____
 RECOMMENDED _____
 APPROVED _____



NOT REPRODUCIBLE
 PROPERTY OF
 TRUCKEE MEADOWS WATER
 AUTHORITY. RETURN UPON
 COMPLETION OF PROJECT
 (Per Homeland Security Act)

**HIGHLAND CANAL SECURITY IMPROVEMENTS
 TRUCKEE RIVER HIGHLANDS HOA - ANSELMO DR AREA**

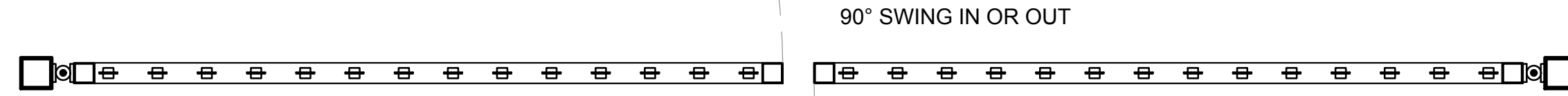
DETAILS

SHEET NUMBER

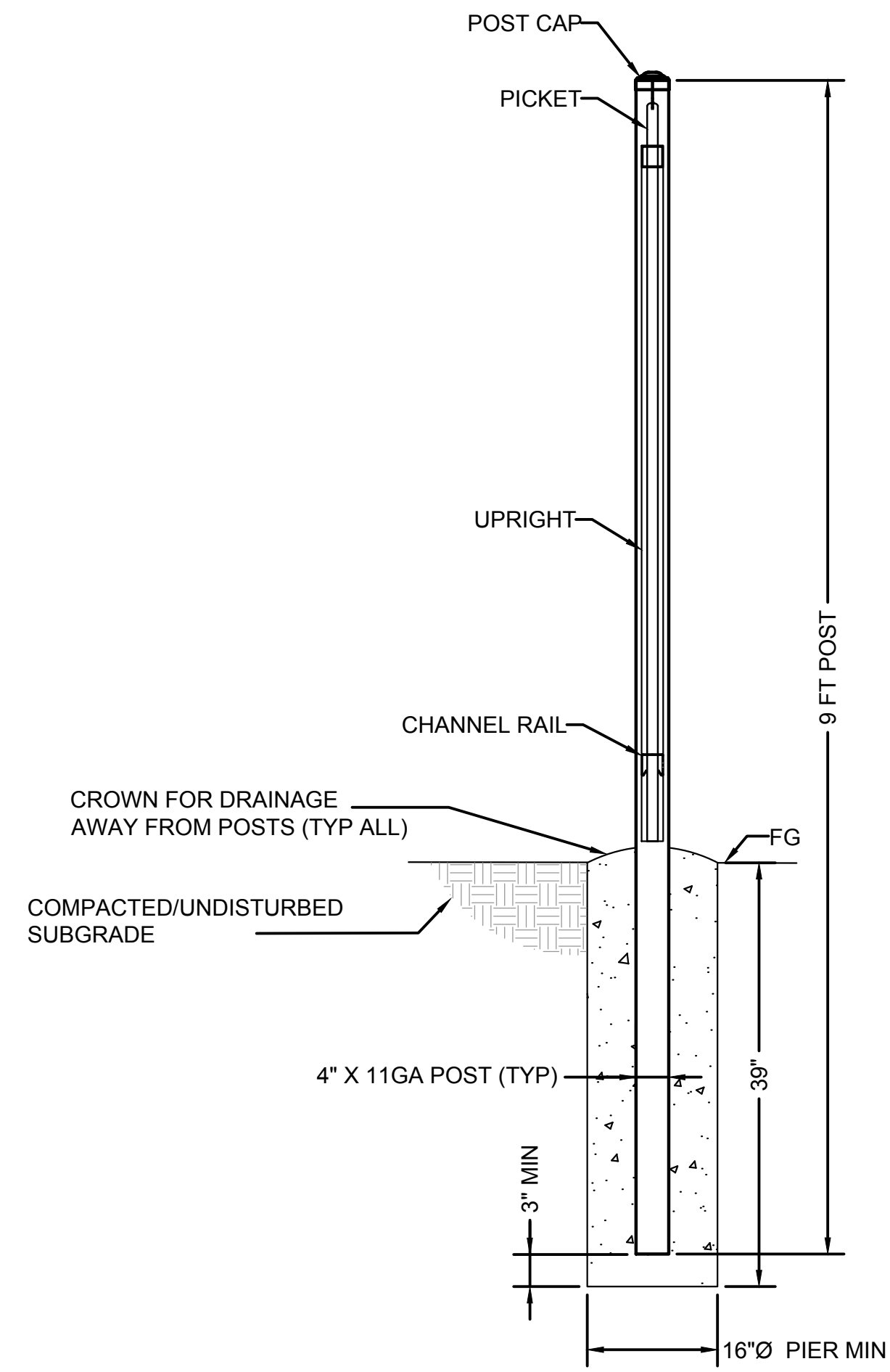
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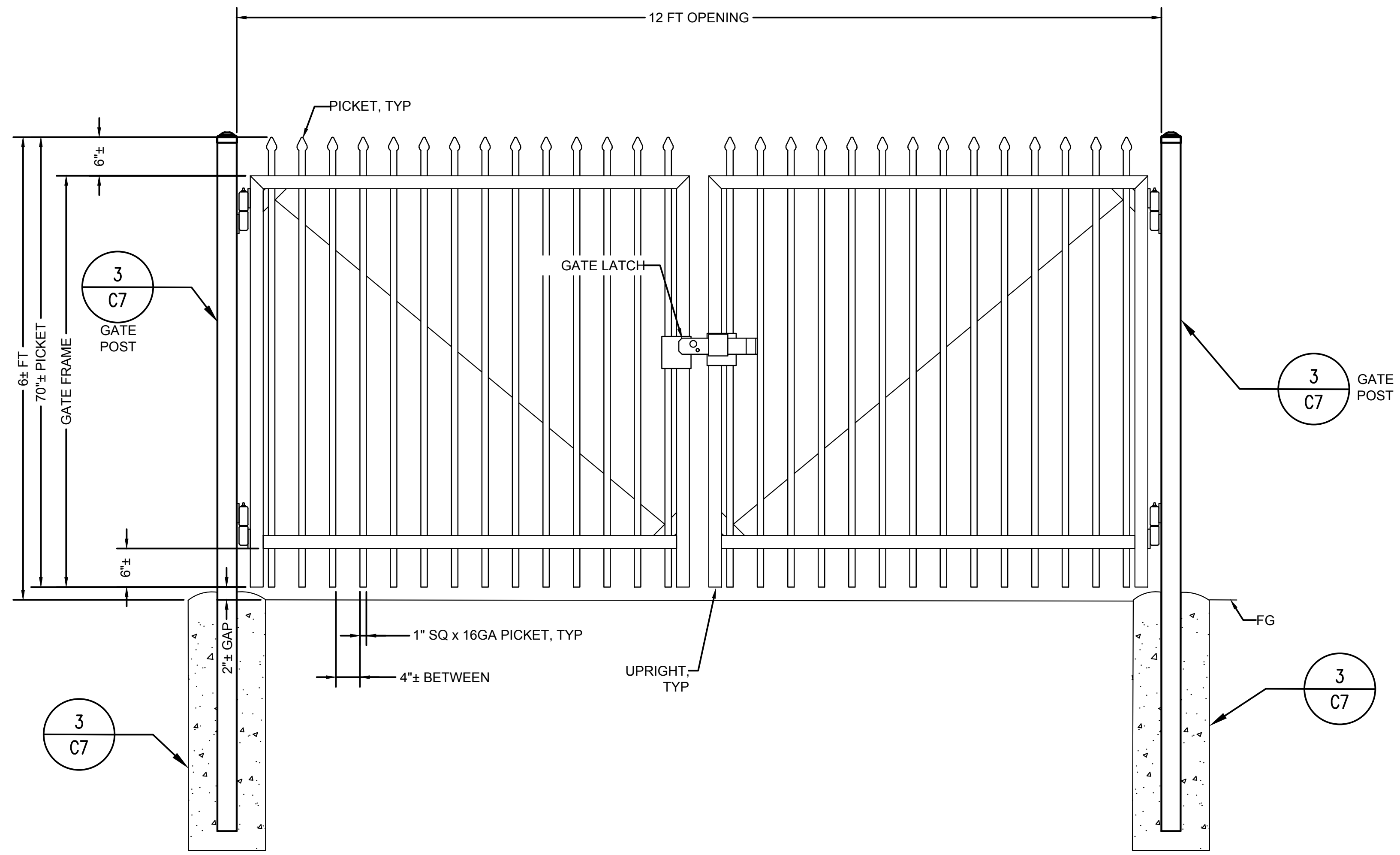
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① GATE PLAN
SCALE: NTS



③ GATE SECTION
SCALE: NTS



② 12'W x 6'H DOUBLE GATE ELEVATION
SCALE: NTS

BID SET

REVISION	DESCRIPTION	BY	APP	DATE
1	ADDENDUM NO. 3	KM	KM	3/20/19

WORK ORDER NO. 17-0016
 DESIGNED _____
 DRAWN _____ KM
 DATE MARCH 20, 2019
 CHECKED _____
 SUBMITTED _____
 RECOMMENDED _____
 APPROVED _____

TRUCKEE MEADOWS WATER AUTHORITY

1355 CAPITAL BLVD. / PO BOX 30013
 RENO, NEVADA 89520-3013
 PH 775-834-8000 / FX 775-834-8003

NOT REPRODUCIBLE
 PROPERTY OF TRUCKEE MEADOWS WATER AUTHORITY. RETURN UPON COMPLETION OF PROJECT (Per Homeland Security Act)

**HIGHLAND CANAL SECURITY IMPROVEMENTS
 TRUCKEE RIVER HIGHLANDS HOA - ANSELMO DR AREA**

DETAILS

SHEET NUMBER
C7
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