



CITY OF MORGAN HILL

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Addendum No. 3

DATE: **September 14, 2023**
TO: **ALL PLANHOLDERS OF THE COMMUNITY PARK PICKLEBALL COURTS PROJECT**
FROM: **LYNETTE KONG – ASSOCIATE ENGINEER**
RE: **CLARIFICATION WITH REVISION**

1. Under TECHNICAL SPECIFICATION TS-10: 8' PEIMETER FENCE AND GATES:

REPLACE:

"8' Perimeter Fence and Gates construction shall be 8' tall, with 2" diamond shaped fabric, 9-gauge galvanized metal mesh, and shall at a minimum conform to, or exceed the plans and details, and provisions in Section 10-3 "Chain Link Fences" of the Standard Specifications.

The Fence shall be engineered by a professional engineer for Wind Loads per 'Chain Link Fence Wind Loads Guide for the Selection of Line Posts and Line Post Spacing', published by Chain Link Fence Manufacturers Institute."

WITH:

The attached "CHAIN LINK FENCE, GALVANIZED CHAIN LINK FABRIC ON GALVANIZED FRAMEWORK" (5 pages)

2. Under TECHNICAL SPECIFICATION TS-11: 4' MID-COURT FENCE AND GATES:

REPLACE:

"4' Mid-Court Fence and Gate construction shall be 4' tall, with 2" diamond shaped fabric, 9-gauge galvanized metal mesh, and shall at a minimum conform to, or exceed the plans and details, and provisions in Section 10-3 "Chain Link Fences" of the Standard Specifications."

WITH:

The attached "CHAIN LINK FENCE, GALVANIZED CHAIN LINK FABRIC ON GALVANIZED FRAMEWORK" (5 pages)

Attachment: "CHAIN LINK FENCE, GALVANIZED CHAIN LINK FABRIC ON GALVANIZED FRAMEWORK" (5 pages)

ADDENDUM ACKNOWLEDGMENT

Bidder acknowledges receipt of this addendum, which shall be attached to the proposal.

Contractor's Representative

Date

THIS DOCUMENT SHALL BECOME A PART OF THE PROJECT SPECIFICATIONS

CHAIN LINK FENCE
GALVANIZED CHAIN LINK FABRIC ON GALVANIZED FRAMEWORK

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. Galvanized (zinc) coated chain link fabric with galvanized steel framework and accessories for the 8' perimeter fencing and gates and for the 4' midcourt fencing and gate.

1.02 REFERENCES

- A. ASTM A392 Standard Specification for Zinc-Coated Steel Chain-Link Fabric
- B. ASTM A780 Standard Practice for Repair of Damaged and Uncoated Areas of Hot-dip Galvanized Coatings
- C. ASTM F552 Standard Terminology Relating to Chain Link Fencing
- D. ASTM F567 Standard Practice for Installation of ChainLink Fence
- E. ASTM F626 Standard Specification for Fence Fittings
- F. ASTM F900 Standard Specification for Industrial and Commercial Swing Gates
- G. ASTM F1043 Standard Specification for Strength and Protective Coatings on Steel Industrial Chain Link Fence Framework
- H. ASTM F1083 Standard Specification for Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures
- I. WLG2445 Chain Link Fence Manufacturers Institute, Chain Link Fence Wind Load Guide for the Selection of Line Posts and Line Post Spacing

1.03 SUBMITTALS

- A. Shop drawings: Provide the layout of the fences and gates with dimensions, details, and finishes of components, accessories, hardware anchorage, post foundations, and schedule of components.
- B. Product data: Provide data on fabric, posts, accessories, fittings, and hardware. Include galvanizing/coating certification and manufacturer's technical literature.
- C. Samples: If requested, samples of materials (e.g., fabric, wires, and accessories).

1.04 QUALITY ASSURANCE

- A. Manufacturer: Company having manufacturing facilities in the United States with a minimum five years experience specializing in manufacturing of chain link fence products.
- B. Fence contractor: Contractor having five years experience installing similar projects in accordance with ASTM F567.
- C. Tolerances: ASTM current specification and tolerances apply and supersede any conflicting tolerance.
- D. Single source: To ensure system integrity obtain the chain link system, framework, fabric, fittings, gates and accessories from a single source.

PART 2 - PRODUCTS

2.01 MANUFACTURER

A. Approved Manufacturer: Master Halco, Inc.
3010 Lyndon B Johnson Freeway
Dallas, TX. 75234
Phone (800) 883-8384
www.masterhalco.com E-mail: spec@fenceonline.com

B. Or others as approved equal by the City.

2.02 CHAIN LINK FENCE FABRIC

A. Galvanized (zinc) coated steel chain link fabric per ASTM A392
Class 1 weight of zinc coating 1.2 oz/ft² (366 g/m²)

Size and Height (8' Perimeter Fence): Chain link fabric shall be 2 inch mesh, 9 gauge wire having a break load of 1290 lbf and 96-inch mesh height.

Size and Height (4' Perimeter Fence): Chain link fabric shall be 2 inch mesh, 9 gauge wire having a break load of 1290 lbf and 48-inch mesh height.

B. Selvage of fabric knuckled at top and knuckled at bottom.

2.03 STEEL FENCE FRAMEWORK

A. Steel pipe Type I: ASTM F1043 Group IA, ASTM F1083 standard weight schedule 40 hot-dip galvanized pipe having a zinc coating of 1.8 oz/ft² (550 g/m²) on the outside surface and 1.8 oz/ft² (550 g/m²) on the inside surface.
Regular Grade: Minimum steel yield strength of 30,000 psi (205 MPa)

B. End and Corner Post for 8' Perimeter Fencing: minimum outside diameter of 6.625 inches and a minimum weight of 5.8 pounds per foot.
End and Corner Post for 4' Midcourt Fencing: minimum outside diameter of 2.875 inches and a minimum weight of 5.8 pounds per foot.

C. Pipe Line Post for 8' Perimeter Fencing: minimum outside diameter of 4.00 inches and a minimum weight of 3.65 pounds per foot.
Pipe Line Post for 4' Midcourt Fencing: minimum outside diameter of 1.90 inches and a minimum weight of 2.72 pounds per foot.

D. Pipe Rail and Braces: Type I, round steel schedule 40.

2.04 FITTINGS

A. Post caps: ASTM F626 galvanized pressed steel, malleable iron, or aluminum alloy weather tight closure cap for tubular posts. Provide one cap for each post. "C" shaped line post without top rail do not require post caps. When top rail is specified provide line post loop tops to secure top rail.

B. Rail ends: Galvanized pressed steel per ASTM F626, for connection of rails to post using a brace band.

C. Top rail sleeves: 7" (178 mm) galvanized steel sleeve per ASTM F626.

D. Wire ties: 9 gauge (0.148") (3.76 mm) galvanized steel wire for attachment of fabric to line posts and rails. Pre-formed hog ring ties to be 9 gauge (0.148") (3.76 mm) galvanized steel or aluminum for attachment of fabric to tension wire. Tie wire and hog rings per ASTM F626.

E. Brace and tension (stretcher bar) bands: ASTM F626 galvanized 12 gauge (0.105") (2.67mm) pressed steel by 2

3/4" (19mm) formed to a minimum 300 degree profile curvature for post attachment. Secure bands using minimum 5/16" (7.94 mm) galvanized carriage bolt and nut.

- F. Tension (stretcher) bars: Galvanized steel one piece length equal to 2 inches (50 mm) less than full height of fabric with a minimum cross-section of 3/16" x 3/4" (4.76 mm x 19 mm) per ASTM F626. Provide tension (stretcher) bars where chain link fabric is secured to the terminal post.
- G. Truss rod assembly: Galvanized steel minimum 5/16" (7.9mm) diameter truss rod with pressed steel tightener, in accordance with ASTM F626
- H. Carriage bolts and nuts: Galvanized of commercial quality

2.05 TENSION WIRE

- A. Tension wire: ASTM A824 Type II, zinc coated (galvanized) steel wire, 7 gauge, (0.177") (4.50 mm) diameter wire having a tensile strength of 75,000 psi (517 MPa).

2.06 CHAIN LINK SWING GATE

- A. Swing gates for the 8' perimeter fencing shall be a double leaf opening by 7-feet high. The swing gate for the 4' midcourt fencing shall be a single leaf opening by 4-feet high. Fabricate chain link swing gates in accordance with ASTM F900. Gate frame to be of welded construction. Weld areas to be protected with zinc-rich paint per ASTM A780. The gate frame members are to be spaced no greater than 8' 0" (2.44 m) apart horizontally or vertically. Exterior members to be 1.900" (48.3 mm) outer diameter pipe, interior members when required shall be 1.660" (42.2 mm) outer diameter pipe. Pipe to be Grade 1 ASTM F1083 per section 2.03. Chain link fabric to match specification of fence system. Fabric to be stretched tightly and secured to vertical outer frame members using tension bar and tension bands spaced 12" (304.8 mm) on center and tied to the horizontal and interior members 12" (304.8 mm) on center using 9 gauge galvanized steel ties per section 2.04.
- B. Hinges, hot dip galvanized pressed steel or malleable iron, 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° (3.14 rad)
- C. Latch: Galvanized forked type capable of retaining gate in closed position and have provision for padlock. Latch shall permit operation from either side of gate.
- D. Double gates: Provide galvanized drop rod with center gate stop pipe or receiver to secure inactive leaf in the closed position. Provide galvanized pressed steel locking latch, requiring one padlock for locking both gate leaves, accessible from either side.
- E. Gate holdback: Provide galvanized gate hold back keeper for each gate leaf over 5' (1524 mm) wide. Gate keeper shall consist of mechanical device for securing free end of gate when in full open position.
- F. Gate posts: Grade 1 pipe ASTM F1083 per section 2.03. The gate posts for the 8' perimeter fence gates shall be a minimum 2.875 inches outer diameter and the gate posts for the 4' midcourt fence gates shall be a minimum 2.375 inches outer diameter.

2.07 POST SETTING MATERIALS

- A. Concrete: Minimum 28 day compressive strength of 3,000 psi (20 MPa).

PART 3 EXECUTION

3.01 SITE EXAMINATION

- A. Ensure the court's perimeter boundaries of work are clearly established.
- B. Survey of fence location to be provided by the City.
- C. Verify areas to receive fencing are completed to final grade.

3.02 CHAIN LINK FRAMEWORK INSTALLATION

- A. Install chain link fence system in accordance with ASTM F567 and manufacturer's instructions.
- B. Locate terminal post at each fence termination and change in horizontal or vertical direction of 30° or more.
- C. Space line posts uniformly 8' (2438 mm) on center for the 8' perimeter fencing and maximum 10' on center for the 4' midcourt fencing on center, as determined by wind load post selection calculations.
- D. Concrete set posts: Excavate holes in firm, undisturbed or compacted soil. Holes shall have diameter 4 times greater than outside dimension of post, and depths approximately 6" (152 mm) deeper than post bottom. Excavate deeper as required for adequate support in soft and loose soils, and for posts with heavy lateral loads. Set post bottom 36" (914 mm) below surface when in firm, undisturbed soil. Place concrete around posts in a continuous pour. Trowel finish around post and slope to direct water away from posts.
- E. Check each post for vertical and top alignment and maintain in position during placement and finishing operations.
- F. Bracing: Install horizontal brace and truss assembly at mid-height or above for fences 6' (1829 mm) and over at each fabric connection to the terminal post. The diagonal truss rod is installed at the point where the brace rail is attached to the terminal post and diagonally down to the bottom of the adjacent line post. Place the truss rod in tension by adjusting the turnbuckle.
- G. Tension wire: Install tension wires so that it will be located 4" (101.6 m) up from bottom the fabric. If top rail is not specified, install the tension wire so that it will be located 4" (101.6 mm) down from the top of the fabric. Stretch and install tension wire before installing the chain link fabric and attach it to each post using wire ties.
- H. Top rail: Install in lengths of 21' (6400 mm). Connect ends with sleeves forming a rigid connection, allow for expansion and contraction.
- I. Bottom Rails: Install bottom rails between posts and attach to post using rail end or line rail clamps.

3.03 CHAIN LINK FABRIC INSTALLATION

- A. Post Footings:
 1. Verify post footings are free from debris prior to concrete placement.
 2. Ensure cast parts are not disturbed during concrete placement.
 3. Locate and set in place items which will be cast directly into concrete.
 4. Set all posts plumb, in concrete footings with top of footing flush with finish grade. Slope top of concrete for water runoff.
- B. Fabric:
 1. Install fabric on security side, pull fabric taut; thread the tension bar through fabric and attach to terminal posts with tension bands spaced maximum of 15" (381 mm) on center and attach so that fabric remains in tension after pulling force is released. Install fabric so that it is 2" (50 mm) +/- 1" (25 mm) above finish grade.
 2. Place fabric on side of posts, braces, and gates facing away from interior of the pickleball courts.
- C. Secure fabric using wire ties to line posts at 15" (381 mm) on center and to rails and braces 24" (610 mm) on center, and to the tension wire using hog rings 24" (610 mm) on center. Tie wire shall be secured to the fabric by wrapping it two 360 degree turns around the chain link wire pickets. Cut off any excess wire and bend back so as not to protrude so as to avoid injury if a pedestrian may come in contact with the fence.

3.04 CHAIN LINK GATE INSTALLATION

- A. Swing gates: Installation of swing gates and gate posts shall be per ASTM F567. Direction of swing shall be as shown on drawings. Gates shall be hung plumb in the closed position with minimal space from grade to bottom

of gate leaf. Double gate drop bar receiver shall be set in a minimum concrete footing 6" (152 mm) diameter by 24" (610 mm) deep. Gate leaf holdbacks shall be installed on all double gates and all gate leafs greater than 5' (1524 mm) in width.

3.05 ERECTION TOLERANCES

- A. Maximum Variation from Plumb: 0.25 inch
- B. Maximum Offset from True Position: 1.00 inch

3.06 SITE CLEAN UP

- A. Clean up area adjacent to fence line from debris and unused material created by fence installation.

END OF SECTION