

ITEM 10607.0460 M - ORNAMENTAL PICKET CANTILEVER SLIDING GATE SYSTEM

DESCRIPTION

General

The Work shall consist of furnishing and installing ornamental picket cantilever slide gate, electronic vehicular slide gate operator, electronic vehicular barrier gate operator, standalone keypad/intercom connection, and loop detectors, all as detailed on the Plans.

Submittals

- A. In accordance with NYSDOT Standard Specifications Section 106 – Control of Material.
- B. Shop Drawings: Layout of fences and gates with dimensions, details, and finishes of components, accessories, and post foundations.
- C. Product Data: Manufacturer’s catalog cuts indicating material compliance.
- D. Samples: Color selections for polyester finishes. If requested, samples of materials (e.g., finials, caps, and accessories).

Quality Assurance

- A. Qualifications: Manufacturers shall have a minimum of five years experience manufacturing ornamental picket fencing.
- B. Special Warranty: Provide a warranty covering cantilever slide gate and truck assembly, gate operators, keypad/intercom connection and all accessories against failure resulting from normal use for a period of five years from date of purchase. Failure is defined as any defect in manufacturing that prevents the gate from operating in a normal manner.

MATERIALS

Ornamental Picket Cantilever Slide Gate

- A. Manufacturer:

Estate Single Cantilevered Sliding Gate w/ straight top & 1" pickets (Dwg. No. 6-8700L) by Master Halco Monumental Iron Works Subsidiary 6500 Eastern Ave. Baltimore, MD 21224 410-633-6500 www.mhfence.com

Boundary Fence & Railing Systems, Inc. 131-02 Jamaica Ave. Richmond Hill, New York 11418 718-847-3400 Boundfence@aol.com

Ameristar Fence Products 1555 North Mingo Road Tulsa, OK 74116 918-835-0898 ameristarfenceproducts.com

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Or equal as approved by the Engineer.

B. Gate Frames

1. Fabricate cantilever slide gate using (2) 51-mm square aluminum members, ASTM B221, alloy and temper 6063-T6, weighing 2.78 kilograms per meter. Weld members together forming rigid one-piece frame integral with top track. Provide two truck assemblies for each gate leaf. Bottom rail shall consist of 50-mm by 100-mm aluminum member weighing 2.54 kilograms per meter. Gates shall be shipped in two parts and field spliced with special attachments provided by the manufacturer.
2. Internal uprights: 25-mm by 50-mm aluminum members welded in gate frames at maximum 1880-mm face to face, subdividing frame into panels.
3. Weld 2 top track/rails together forming a dual enclosed track. Provide two truck assemblies for each track for each gate leaf, total 4 truck assemblies. Bottom shall consist of 50-mm by 100-mm aluminum member weighing 2.54 kilograms per meter.
4. Cantilever support (overhang) length on gate leaf shall be as specified on the contract drawings.

C. Ornamental Picket Infill: "U" channel rails formed aluminum 35-mm wide by 38-mm deep, 11-gauge (3.05-mm) wall thickness. Punch rails to receive pickets and weld inside gate frame. Pickets shall be galvanized steel, 25-mm square tubes of gauge, spacing, and with accessories to match fence. Attach pickets to "U" rails by 6-mm industrial drive rivets, Monumental Iron Works No. 381080691, or approved equal. Monumental Iron Works is referenced for the purposes of quality only.

D. Bracing: Provide diagonal adjustable length truss rods of 9.53-mm galvanized steel in each panel of gate frames.

E. Track/Rail: Enclosed combination one-piece track and rail, aluminum extrusion with weight of 5.54-kilograms per meter. Track shall withstand reaction load of 907-kilograms.

F. Truck Assembly: Swivel type, zinc die cast, with four sealed lubricant ball bearing rollers 50-mm in diameter by 14mm in width, and two side rolling wheels to ensure truck alignment in track. Mount trucks on post brackets using 22-mm diameter ball bolts with 13-mm shank. Design truck assembly to withstand same reaction load as track.

G. Gate hangers, latches, brackets, guide assemblies, and stops shall be malleable iron, galvanized after fabrication. Provide positive latch with provisions for padlocking.

H. Bottom Guide Wheel Assemblies: Each assembly shall consist of two – 100-mm diameter rubber wheels, straddling bottom horizontal gate rail, allowing adjustment to maintain gate frame plumb and in proper alignment. Attach one assembly to each guidepost.

I. Gate Posts (latch and support posts): 100-mm square galvanized steel weighing 14.27 kilograms per meter. Provide 1 latch post and 2 dual support posts as shown on the plans.

J. Accessories

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1. Pre-assemble panels with ornamental accessories attached with industrial drive rivets to prevent removal and vandalism.
 2. Posts shall have flat top, formed steel, cast of malleable iron, weather tight closure cap.
 3. Pickets shall have flat tops with polymer plug and ring option.
- K. Finish: After components have been galvanized, inside and outside, to provide maximum corrosion resistance, clean and pretreat with phosphate to form amorphous structure or galvanized surface for superior powder coating adhesion. Give phosphate coated surface a thorough water rinse to prepare surface for seal rinse. Seal rinse with non-chromated solution to improve corrosion resistance and adhesion of finish coat. Bake metal dry before of powder coating. Apply 0.0635-mm thickness of polyester resin based powder coating by electrostatic spray process. Bake finish for 20 minutes at 232-degrees Celsius metal temperature. Color shall be black.

General

The foundation(s) necessary to mount the above referenced equipment shall be as detailed on the Plans. Concrete shall meet the requirements of Footing Concrete as described in section 555 of the Standard Specifications.

Sliding Gate Operator

- A. Slide Gate Operator Manufacturer:

Doorking Model 915
Doorking, Inc.
120 Glasgow Avenue
Inglewood, CA 90301
800-826-7493
info@doorking.com

Elite Access Systems Model
SL3000-UL
Elite Access
25741 Commercentre Drive
Lake Forest, CA 92630
949-580-1700
eliteaccess.com

OSCO Model GSLG-A-4
Hoover Fence Company
P.O. Box 563
5531 McClintocksburg Road
Newton Falls, OH 44444
800-355-2335
hooverfence.com

Or equal as approved by the Engineer.

- B. Stand alone digital keypad/intercom manufacturer:

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Doorking Model 1504
Doorking, Inc.
120 Glasgow Avenue
Inglewood, CA 90301
800-826-7493
info@doorking.com

BASE Industries DigiCom
Digital Lock Entry System
(with 150 entry codes)
BASE Access
254 Ott Street #F
Corona, CA 91720
800-554-8088

GATEKEEPERS, Inc.
Advantage DK Series ADV-
125I
GATEKEEPERS, Inc.
P.O. Box 849
Soddy Daisy, TN 37384
800-378-4283
www.gatekeepers.net

Or equal as approved by the Engineer.

- C. Standalone digital keypad/intercom shall be post mounted in accordance with manufacturer's recommendations.

Barrier Gate Operator

Electronic vehicular barrier gate operator (with DC back up system) manufacturer:

Doorking Model 1601 with
3.7m PVC arm
Doorking, Inc.
120 Glasgow Avenue
Inglewood, CA 90301
800-826-7493
info@doorking.com

EPS Barrier Gate Operator
#301 with 3.7m arm
Autogate
P.O. Box 50
Berlin Heights, OH 44814
800-944-4283
enter@autogate.com

Allstar #VIR 30 (3m arm)
Allstar Corp.
P.O. Box 240
Downingtown, PA 19335
877-441-9300
allstarcorp.com

Or equal as approved by the Engineer.

Setting Materials

Portland cement concrete shall conform to the requirements of NYSDOT Standard Specification Section 501 except that requirements for automated batching shall not apply.

CONSTRUCTION DETAILS:

Examination

- A. Verify that areas to receive fencing are completed to final grades and elevations.
B. Ensure property lines and legal boundaries of work are clearly established.

Installation

- A. Install gate posts in accordance with manufacturer's instructions.
B. Concrete Set Posts:

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1. Drill hole in firm, undisturbed or compacted soil. Holes shall have diameter four times greater than nominal outside dimension of post and depths approximately 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 914-mm below surface when in firm, undisturbed soil. Place concrete around post in a continuous pour. Trowel finish around posts and slope to direct water away from posts.
 2. Gate Posts and Hardware: Set keepers, stops, sleeves, and other accessories into concrete. Check each post for vertical and top alignment, and maintain in position during placement and finishing operations.
- C. Gate Installation:
1. Install gates plumb, level, and secure for full opening without interference.
 2. Attach hardware by means that will prevent unauthorized removal.
 3. Adjust hardware for smooth operation.
- D. Contractor shall install standalone digital keypad with telephone communication system, electronic vehicular barrier gate operator, and electronic vehicular slide gate operator, all in accordance with the manufacturer's instructions and the layout dimensions as shown on the Plans.

Accessories

Install post caps and other accessories to complete fence.

Cleaning

Clean up debris and unused materials and remove from site.

Tests and Demonstration

- A. All work provided under the Contract shall be demonstrated to function properly in accordance with Contract requirements.
- B. Upon completion of the work, and prior to final payment, testing of equipment and appliances installed hereunder shall be performed in the presence of the Engineer-In-Charge.
- C. Should the tests show that any of the materials, appliances or workmanship are not in compliance with the specifications, the Contractor, upon written notice, shall remove the same and promptly replace them with other materials in conformity with the specifications at no extra cost to the State.

METHOD OF MEASUREMENT:

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Ornamental Picket Cantilever Sliding Gate System will be measured for payment on an each basis for each sliding gate system furnished and installed in accordance with the Contract Documents and as directed by the Engineer.

BASIS OF PAYMENT:

The unit price bid for all the work encompassed by this Section shall include the furnishing of ornamental picket cantilever sliding gate, posts and accessories, sliding gate operator, barrier gate operator, keypad/intercom access hardware and connections, setting materials and all labor, materials, tools, equipment, testing and incidentals as necessary to complete the work of the item installed in place to the satisfaction of the Engineer.