

DATE:	September 7, 2023				
ADDENDUM NO:	ONE				
PROJECT NO:	Bid Number 24-31				
PROJECT DESCRIPTION:	Automatic Entrance Gates District Operations and Grounds Storage Building				

This Addendum is hereby made part of the Contract Documents of the above named Project. It supplements and modifies them as follows:

<u>General</u>: The pre-bid conference attendee list is issued with this addendum.

Specifications:

- 1. Replace entirely Section 011000, PROJECT SUMMARY with the attached new Section 011000, PROJECT SUMMARY consisting of 2 pages.
- 2. Replace entirely Section 323113, CHAIN LINK FENCES AND GATES with the attached new Section 323113, CHAIN LINK FENCES AND GATES consisting of 5 pages.

Drawings:

- 1. Replace entirely Drawing A-2, DISTRICT OPERATIONS AUTOMATIC GATE SITE PLAN with the attached new Drawing A-2, DISTRICT OPERATIONS AUTOMATIC GATE SITE PLAN.
- 2. Replace entirely Drawing A-4, GROUNDS STORAGE AUTOMATIC GATE SITE PLAN with the attached new Drawing A-4, GROUNDS STORAGE AUTOMATIC GATE SITE PLAN.
- 3. Replace entirely Drawing A-5, DISTRICT OPERATIONS BOLLARD SECTION with the attached new Drawing A-5, DISTRICT OPERATIONS BOLLARD SECTION.
- 4. Replace entirely Drawing A-6, DISTRICT OPERATIONS FENCE ELEVATION with the attached new Drawing A-6, DISTRICT OPERATIONS FENCE ELEVATION.

END ADDENDUM NUMBER ONE (This Addendum consists of 13 pages)

PRE-BID CONFERENCE

AUTOMATIC ENTRANCE GATES

DISTRICT OPERATIONS AND GROUNDS AND STORAGE BUILDING

BID NUMBER 24-31

WEDNESDAY, AUGUST 30, 2023- 10:00A - MEET AT FRONT OF:

-DISTRICT OPERATION THEN PROCEED TO GROUND AND STORAGE BUILDING

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MANDATORY

SECTION 011000 SUMMARY

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Project information.
- B. Contract description.
- C. Description of the Work.
- D. Work by Owner.
- E. Owner occupancy.
- F. Contractor use of site and premises.
- G. Work sequence.
- H. Specification conventions.

1.02 PROJECT INFORMATION

- A. Project Name: AUTOMATIC ENTRANCE GATES
- B. Owner's Name: Parkway School District.
- C. Architect's Name: Parkway School District.
- D. The Project consists of the preparation and installation of Automatic Entrance Gates and Fencing at District Operations and Grounds/Storage.

1.03 CONTRACT DESCRIPTION

A. Contract Type: A single prime contract based on a Stipulated Price as described in Document 005200 - Agreement Form.

1.04 DESCRIPTION OF THE WORK

- A. Scope of demolition and removal work is described in the project manual.
- B. Scope of alterations work is indicated on drawings.
- C. The Work includes, but is not limited to:
 - 1. Removal of existing fencing, curbs and miscellaneous site items required for the installation of the new automatic entrance gates and fencing to be provided by the Owner.
 - 2. Installation of the new automatic sliding entrance gate, slide gate operator and controls.
 - 3. Concrete work for operator pad mounting, pedestal base controller, fence posts and bollards.
 - 4. Installation of chain link fencing, manual gates, protection bollards and railing.
 - 5. Electrical supply required for the automatic entrance gate operator and heater will be provided by the Owner.
 - 6. Wifi Internet Access provided by the Owner.
 - 7. Owner will provide demolition of site elements required for installation of the new work. Owner is to coordinate all such elements with the Contractor at start of the installation.
- D. See attached drawings showing location of each automatic entrance gate and details.

1.05 WORK BY OWNER

- A. Owner will supply and install the following:
 - 1. Electrical supply required for the automatic entrance gate operator and heater.
 - 2. Internet WIFI access required for the automatic entrance gate operator.

1.06 OWNER OCCUPANCY

- A. Owner intends to continue to occupy adjacent portions of the existing building during the entire construction period.
- B. Owner intends to occupy the Project upon Substantial Completion.

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- C. Cooperate with Owner to minimize conflict and to facilitate Owner's operations.
- D. Schedule the Work to accommodate Owner occupancy.

1.07 CONTRACTOR USE OF SITE AND PREMISES

- A. Construction Operations: Limited to areas noted on Drawings.
- B. Arrange use of site and premises to allow:
 - 1. Owner occupancy.
 - 2. Work by Others.
 - 3. Work by Owner.
 - 4. Use of site and premises by the public.
- C. Provide access to and from site as required by law and by Owner:
 - 1. Emergency Building Exits During Construction: Keep all exits required by code open during construction period; provide temporary exit signs if exit routes are temporarily altered.
 - 2. Do not obstruct roadways, sidewalks, or other public ways without permit.
- D. Existing building spaces may not be used for storage without expressed consent of the Owner.
- E. Time Restrictions:
 - 1. Limit conduct of exterior work to the hours of 7:00 a.m. to 6:00 p.m. or by local ordinance if more restrictive unless given specific written permissionn by the Owner to work outside of these hours.
 - 2. Limit conduct of of interior work to the hours of 6:00 a.m. to 11:00 p.m..
 - 3. Disruptive Work: prior to 7:00 a.m., after 3:45 p.m., or any day school is not in session . a. Disruptive work is defined as work that will vibrate the building structure, will cause
 - excessive noise in adjacent classrooms, has potential of releasing noxious fumes, or puts building occupants in a potentially unsafe situation.
- F. Utility Outages and Shutdown:
 - 1. Contractor shall not proceed with utility outage or shutdown without written confirmation from Owner that utility outage or shutdown can commence.
 - 2. Limit disruption of utility services to hours the building is unoccupied.
 - 3. Contractor shall notify Owner at least 48 hours in advance of utility outage or shutdown.
 - 4. Do not disrupt or shut down life safety systems, including but not limited to fire sprinklers and fire alarm system, without 7 days notice to Owner and authorities having jurisdiction.
 - 5. Prevent accidental disruption of utility services to other facilities.

1.08 WORK SEQUENCE

- A. Construct Work in one phase at Contractor's scheduling discretion.
 - 1. Contractor allowed to being the Work in the field on or after September 28, 2023
 - 2. Substantial Completion date for the Work shall be on or before December 29, 2023

1.09 SPECIFICATION CONVENTIONS

- A. These specifications are written in imperative mood and streamlined form.
- B. This imperative language is directed to the Contractor, unless specifically noted otherwise.
- C. The words "shall be" are included by inference where a colon (:) is used within sentences or phrases.
- D. All references to "days" are consecutive calendar days, unless specifcally noted otherwise.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 323113 CHAIN LINK FENCES AND GATES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Posts, rails, and frames.
- B. Excavation for post bases; concrete foundation for posts.
- C. Manual gates with related hardware.
- D. Automatic gate operators.
- E. Accessories.

1.02 REFERENCE STANDARDS

- A. ASTM A123/A123M Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
- B. ASTM A153/A153M Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.
- C. ASTM C94/C94M Standard Specification for Ready-Mixed Concrete.
- D. ASTM F567 Standard Practice for Installation of Chain-Link Fence.
- E. ASTM F1043 Standard Specification for Strength and Protective Coatings on Steel Industrial Fence Framework.
- F. ASTM F2200 Standard Specification for Automated Vehicular Gate Construction.
- G. CLFMI CLF-FIG0111 Field Inspection Guide.
- H. FS RR-F-191/1D Fencing, Wire and Post Metal (Chain-Link Fence Fabric).
- I. NEMA 250 Enclosures for Electrical Equipment (1000 Volts Maximum).
- J. NFPA 70 National Electrical Code.
- K. UL 50 Enclosures for Electrical Equipment, Non-Environmental Considerations.
- L. UL 50E Enclosures for Electrical Equipment, Environmental Considerations.
- M. UL 325 Standard for Door, Drapery, Gate, Louver, and Window Operators and Systems.

1.03 SUBMITTALS

- A. See Section 013000 Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data on fabric, posts, accessories, fittings and hardware.
- C. Project Record Documents: Accurately record actual locations of property perimeter posts relative to property lines.

1.04 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience.

1.05 WARRANTY

- A. See Section 017800 Closeout Submittals, for additional warranty requirements.
- B. Provide five year manufacturer warranty for automatic gate operator.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Automatic Gate Operators:
 - 1. Tymetal Corp; The Fortress Heavy Duty Cantilever Slide Gate: www.tymetal.com/#sle.
 - 2. The Chamberlain Group, LLC; LiftMaster Elite Series Model CSL24ULWK; www.liftmaster.com.

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- 3. Collins & Hermann Infrastructure Solutions; Motorized Cantilevered Slide Gate; www.collinsandhermann.com.
- 4. ProAccess Systems; Motorized Cantilevered Slide Gate; www.G8Pro.com
- 5. Substitutions: See Section 016000 Product Requirements.

2.02 COMPONENTS

- A. Line Posts: 2.38 inch diameter.
- B. Corner and Terminal Posts: 2.38 inch diameter.
- C. Gate Posts: 3-1/2 inch diameter.
- D. Top and Brace Rail: 1.66 inch diameter, plain end, sleeve coupled.
- E. Bottom Rail: 1.66 inch diameter, plain end, sleeve coupled.
- F. Gate Frame: 1.66 inch diameter for welded fabrication.
- G. Fabric: 2 inch diamond mesh interwoven wire, 9 gauge, 0.1483 inch thick, top selvage knuckle end closed, bottom selvage twisted tight.
- H. Tension Wire: 6 gauge, 0.1920 inch thick steel, single strand.
- I. Tie Wire: Aluminum alloy steel wire.

2.03 MATERIALS

- A. Posts, Rails, and Frames: ASTM F1083 Schedule 40 hot-dipped galvanized steel pipe, welded construction, minimum yield strength of 50 ksi for sizes NPS 5 and larger
- B. Line Posts: Type I round in accordance with FS RR-F-191/1D.
- C. Terminal, Corner, Rail, Brace, and Gate Posts: Type I round in accordance with FS RR-F-191/1D.
- D. Wire Fabric: ASTM A392 zinc coated, class 2B fused and bonded steel chain link fabric.

2.04 MANUAL GATES AND RELATED HARDWARE

- A. Hardware for Single Swinging Gates: 180 degree hinges, 2 for gates up to 60 inches high, 3 for taller gates; fork latch with gravity drop and padlock hasp; keeper to hold gate in fully open position.
- B. Hinges: Finished to match fence components.
 - 1. Brackets: Round.
 - 2. Mounting: Center.
 - 3. Closing: Manual.
- C. Latches: Finished to match fence components.
 - 1. Brackets: Round.
 - 2. Locking: Mechanical.

2.05 AUTOMATIC GATE OPERATORS

- A. Sliding Gates: Pre-wired, pedestal mounted gate operator for horizontal sliding gates, per ASTM F2200 and UL 325.
 - 1. Operating type: roller chain.
 - 2. Control Functions: Open, Pause, Close.
 - 3. Maximum Open/Close Time: 30 seconds.
 - 4. Access: Card, Keypad, and Remote.
 - 5. Maximum gate weight: 500 pounds (187 kilograms).
 - 6. Horsepower Rating: Suitable for connected load.
 - 7. Entrapment Protection Devices: Provide sensing devices and safety mechanisms complying with UL 325.
 - a. Primary Device: Provide electric sensing edge or wireless sensing as required with momentary-contact control device.
 - 8. Enclosures: Comply with NEMA 250, and list and label as complying with UL 50 and UL 50E.

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- a. Environment Type per NEMA 250: Unless otherwise indicated, as specified for the following installation locations:
 - 1) Outdoor Locations, direct splashing: Type 4.
- b. Finish for Painted Steel Enclosures: Powder coated unless otherwise indicated.
- 9. Monitoring and controls:
 - a. Connected access portal, high capacity cloud-based access control.
 - b. Smart video intercom connected to gate operator for control of video calling and access codes.
 - 1) Long range reader for hang tag identification and operation up to 20'-30' with up to 500 total capacity.
 - 2) Smart Video Sun Hood.
 - c. Monitored retro-reflective photo eye with wide beam and heater for high performance in varying environment.
 - d. Monitored small profile resistive edge that stops and/or reverses gate when obstructed.
 - e. Monitored wireless edge kit low-energy bluetooth connection between monitored resistive edge and gate operator.
- 10. Safety Add-Ons:
 - a. Monitored through-beam photo eyes and heater
 - b. Lazer Safetyu/Activation Device
 - c. Surface mounted channel for wireless safety edge.
- 11. Accessories:
 - a. Commercial access control reciever.
 - b. Wireless commercial keypad.
 - c. Battery backup 7Ah.
 - d. Heater kit

2.06 AUTOMATIC CANTILEVERED SLIDE GATE

- A. Aluminum Tie Metal 8'-0" and 10'-0" in height cantilever gate frames consist of 2-1/2" O.D. horizontal rails, 2" O.D. vertical bracing, and 1-5/8" diagonal bracing; Chain link as specified fully stretched, including counterbalance.
- B. The slide gate counterbalance approximately 1/2 the length of the gate opening. Provide required counter balance for width of actual opening.
- C. Steel chain link cantilever slide gate roller posts are to be 4 inch O.D. Confirm size for final gate width required for opening.
- D. Concrete footers are to be 18 inch diameter x 42 inch deep for 3-4 inch O.D. posts.



2.07 ACCESSORIES

A. Caps: Molded rigid vinyl; sized to post diameter, set screw retainer.

B. Fittings: Sleeves, bands, clips, rail ends, tension bars, fasteners and fittings; steel.

2.08 FINISHES

- A. Components (Other than Fabric): Galvanized in accordance with ASTM A123/A123M, at 1.7 ounces per square foot.
- B. Hardware: Hot-dip galvanized to weight required by ASTM A153/A153M.
- C. Accessories: Same finish as framing

PART 3 EXECUTION

3.01 EXAMINATION

A. Verification of Conditions: Verify that areas are clear of obstructions or debris.

3.02 PREPARATION

A. Removal: Obstructions or debris.

3.03 INSTALLATION

- A. Install framework, fabric, accessories and gates in accordance with ASTM F567.
- B. Place fabric on outside of posts and rails.
- C. Set intermediate, terminal, and gate posts plumb , in concrete footings with top of footing 2 inches above finish grade. Slope top of concrete for water runoff.
- D. Line Post Footing Depth Below Finish Grade: ASTM F567.
- E. Corner, Gate and Terminal Post Footing Depth Below Finish Grade: ASTM F567.
- F. Brace each gate and corner post to adjacent line post with horizontal center brace rail and diagonal truss rods. Install brace rail one bay from end and gate posts.
- G. Provide top rail through line post tops and splice with 6 inch long rail sleeves.
- H. Install center and bottom brace rail on corner gate leaves.
- I. Do not stretch fabric until concrete foundation has cured 7 days.
- J. Stretch fabric between terminal posts or at intervals of 100 feet maximum, whichever is less.
- K. Position bottom of fabric 2 inches above finished grade.
- L. Fasten fabric to top rail, line posts, braces, and bottom tension wire with tie wire at maximum 15 inches on centers.
- M. Attach fabric to end, corner, and gate posts with tension bars and tension bar clips.
- N. Install bottom tension wire stretched taut between terminal posts.
- O. Do not attach the hinged side of gate to building wall; provide gate posts.
- P. Install hardware and gate with fabric to match fence.
- Q. Install operator in accordance with manufacturer's instructions and in accordance with NFPA 70.

3.04 TOLERANCES

- A. Maximum Variation From Plumb: 1/4 inch.
- B. Maximum Offset From True Position: 1 inch.
- C. Do not infringe on adjacent property lines.

3.05 FIELD QUALITY CONTROL

- A. See Section 014000 Quality Requirements, for additional requirements.
- B. Layout: Verify that fence installation markings are accurate to design, paying attention to gate locations, underground utilities, and property lines.
- C. Post Settings: Randomly inspect three locations against design for:1. Hole diameter.

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- 2. Hole depth.
- 3. Hole spacing.
- D. Fence Height: Randomly measure fence height at three locations or at areas that appear out of compliance with design.
- E. Gates: Inspect for level, plumb, and alignment.
- F. Workmanship: Verify neat installation free of defects. See CLFMI CLF-FIG0111 for field inspection guidance.

3.06 CLEANING

- A. Clean jobsite of excess materials; scatter excess material from post hole excavations uniformly away from posts. Remove excess material if required.
- B. Clean fence with mild household detergent and clean water rinse well.

3.07 CLOSEOUT ACTIVITIES

- A. See Section 017800 Closeout Submittals, for closeout submittals.
- B. See Section 017900 Demonstration and Training, for additional requirements.
- C. Demonstrate proper operation of equipment to Owner's designated representative.
- D. Demonstration: Demonstrate operation of system to Owner's personnel.
 - 1. Use operation and maintenance data as reference during demonstration.
 - 2. Conduct walking tour of project.
 - 3. Briefly describe function, operation, and maintenance of each component.
- E. Training: Train Owner's personnel on operation and maintenance of system.
 - 1. Use operation and maintenance manual as training reference, supplemented with additional training materials as required.
 - 2. Provide minimum of two hours of training.
 - 3. Instructor: Manufacturer's training personnel.
 - 4. Location: At project site.

END OF SECTION





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