



**Project:** Kindergarten Play Area Replacement Project  
Costaño Elementary School  
2695 Fordham St.  
East Palo Alto, CA 94303  
DSA App # 01-118159

**Owner:** Ravenswood City School District  
2120 Euclid Ave.  
East Palo Alto, CA 94303

**Construction Manager:** TELECU  
604 N. Eckhoff Street  
Orange, CA 92868

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**ADDENDUM NO. 1**

**Revision:** March 14, 2019

*Note: The following revisions and clarifications to the Bid Documents (plans and specifications) shall become a part of the Contract Documents upon award of Bid. All bidders are required to incorporate all necessary changes, additions, or deductions into their proposals.*

**A. PROJECT MANUAL**

1. Replace Section 00 01 10 Table of Contents with the attached Addendum 1 Section 00 01 10 Table of Contents.
2. Add the attached specification Section 31 32 20 Decorative Metal Fences & Gates to the project manual.

**Attachments:**

Section 00 01 10 Table of Contents

Section 32 31 20 Decorative Metal Fences and Gates

**END OF ADDENDUM 1**

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**SECTION 00 01 10**

**TABLE OF CONTENTS**

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**PROJECT MANUAL  
INTRODUCTORY INFORMATION**

|         |          |                   |
|---------|----------|-------------------|
| Section | 00 01 10 | Table of Contents |
|---------|----------|-------------------|

**SPECIFICATIONS GROUP**

**DIVISION 1 – GENERAL REQUIREMENTS**

|         |          |                                     |
|---------|----------|-------------------------------------|
| Section | 01 11 00 | Summary of Work                     |
|         | 01 20 00 | Payment Procedures                  |
|         | 01 25 00 | Substitution Procedures             |
|         | 01 30 00 | Administrative Requirements         |
|         | 01 31 00 | Project Management and Coordination |
|         | 01 32 10 | Construction Schedule – Bar Chart   |
|         | 01 35 30 | Alteration Project Procedures       |
|         | 01 40 00 | Quality Requirements                |
|         | 01 42 00 | Reference Standards                 |
|         | 01 45 00 | Testing Laboratory Services         |
|         | 01 50 00 | Temporary Facilities and Controls   |
|         | 01 56 39 | Temporary Tree and Plant Protection |
|         | 01 60 00 | Product Requirements                |
|         | 01 70 00 | Execution Requirements              |
|         | 01 73 00 | Cutting and Patching                |
|         | 01 77 00 | Closeout Procedures                 |

**DIVISION 2 – EXISTING CONDITIONS**

|         |          |            |
|---------|----------|------------|
| Section | 02 40 00 | Demolition |
|---------|----------|------------|

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**DIVISION 3 – CONCRETE**

NOT USED

**DIVISION 4 – MASONRY**

NOT USED

**DIVISION 5 – METALS**

NOT USED

**DIVISION 6 – WOOD, PLASTICS, AND COMPOSITES**

NOT USED

**DIVISION 7 – THERMAL AND MOISTURE PROTECTION**

NOT USED

**DIVISION 8 – OPENINGS**

NOT USED

**DIVISION 9 – FINISHES**

NOT USED

**DIVISION 10 – SPECIALTIES**

NOT USED

**DIVISION 11 – EQUIPMENT**

Section 11 68 16 Play Structures

**DIVISION 12 – FURNISHINGS**

Section 12 93 00 Site Furnishings

**DIVISION 13 – SPECIAL CONSTRUCTION**

NOT USED

**DIVISION 14 – CONVEYING EQUIPMENT**

NOT USED

**DIVISION 31 – EARTHWORK**

Section 31 20 00 Earth Moving  
31 21 00 Utility Trenching and Backfill

**DIVISION 32 – EXTERIOR IMPROVEMENTS**

Section 32 11 00 Pavement – Base Course  
32 12 16 Asphalt Paving  
32 13 13 Concrete Pavement  
32 13 18 Cement and Concrete for Exterior Improvements  
32 13 75 Concrete Curbs and Gutters  
32 17 23 Pavement Markings  
32 18 16.13 Playground Protective Surfacing  
32 31 20 Decorative Metal Fences and Gates  
32 84 00 Planting Irrigation  
32 90 00 Planting  
32 92 00 Turf Planting

**DIVISION 33 – UTILITIES**

Section        33 41 00        Storm Utility Drainage Piping

**END OF SECTION**

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SECTION 32 31 20

DECORATIVE METAL FENCES AND GATES

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**PART 1 - GENERAL**

1.1 SUMMARY

- A. Section Includes: Provide decorative steel fence system including gates, manual and automatically operated, framing, and accessories as required for complete fence installation as indicated.
  - 1. Excavate for post bases and provide concrete anchorage for freestanding posts, provide sleeves and grout posts embedded in concrete construction.

1.2 REFERENCES

- A. American Welding Society (AWS): D1.1, Structural Welding Code.

1.3 SUBMITTALS

- A. Product Data: Submit product literature for gates and operators, gate hardware, grout, and manufactured items.
- B. Shop Drawings: Indicate fence and gate layout, spacing of components, connections, fabrication details, accessories, and anchorage.
  - 1. Indicate profiles, sizes, connections, and anchorage.
  - 2. Provide templates as required for anchor installation by others.
- C. Samples: Submit samples fence section with welds and finish.

1.1 QUALITY ASSURANCE

- A. CALGreen Sustainability Requirements: Comply with CALGreen requirements including those relative to finish material pollution control for paints and coatings.
- B. Sustainability Requirements: Comply with CALGreen requirements including those relative to finish material pollution control for paints and coatings.
- C. Fabricator: Firm with minimum five years successful experience fabricating custom steel fences and gates similar to those required for Project.
  - 1. Provide fence and gates by same fabricator.

**PART 2 - PRODUCTS**

2.1 MATERIALS

- A. System Description: Provide decorative steel fence system including gates, manual and automatically operated, framing, and accessories.
- B. Regulatory Requirements (Accessibility):

1. Gates that are part of the accessible route shall meet all requirements of an accessible door in compliance with CBC Section 11B-404.
  2. The lever of lever-actuated latches or locks for accessible gates shall be curved with a return to within ½" of the (face of) gate to prevent catching on the clothing or persons. California Referenced Standards Code. Title 24, Part 12, Section 12-10-202, Item (F).
  3. Swing doors and gate surfaces within 10" of the finish floor or ground shall have a smooth surface on the push side extending the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be within 1/16" of the same plane as the other and be free of sharp or abrasive edges. Cavities created by added kick plates shall be capped. CBC Section 11B-404.2.10.
- C. Performance Criteria: In addition to applicable code requirements, design to support minimum lateral force of 50 lbs./lin. ft. uniform load and 200 lbs. at any single point without permanent set or damage; ASTM E935.
- D. Steel Shapes, Plates and Bars: ASTM A36; shapes and sizes as indicated on Drawings; provide weights suitable for specified loads; galvanized.
- E. Structural Steel Sheet: Hot rolled, ASTM A1011; or cold rolled, ASTM A1008, Class 1; of grade required for design loading; galvanized.
- F. Steel Tubing: Cold formed ASTM A500; or hot rolled, ASTM A501; minimum Grade B; seamless where exposed; galvanized.
- G. Grout: Non-shrink meeting ASTM C1107 non-metallic, pre-mixed, factory-packaged, non-staining, non-corrosive; type specifically recommended by manufacturer as applicable to job condition.
- H. Fasteners and Rough Hardware: Type required for specific usage; provide zinc-coated fasteners.
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- I. Welding Materials: AWS D1.1, type required for materials being welded.
- J. Primer: Provide primers as recommended by paint manufacturers for substrates and paints specified in Section 09 90 00 – Painting and Coating.
1. Galvanizing Repair Paint: High zinc-dust content paint for regalvanizing welds in galvanized steel.
- K. Concrete: ASTM C94, normal Portland cement, 2,500 psi at 28 days, 2" to 3" slump, 2 to 4 percent entrained air.

## 2.2 FABRICATION

- A. Framework: Design and fabricate fence to withstand anticipated loads, including loads from people climbing on fence.
1. Configurations: As indicated, welded construction unless otherwise indicated.
  2. Fittings: Provide fittings and accessories as required for complete installation.

- B. Fence Infill Panels: Refer to drawings for type and configuration.
- C. Gates: Fabricate gates as indicated, welded construction.
  - 1. Swing Gates: Provide complete with hardware.
    - a. Pivots: Lift-off type, extra heavy-duty ball bearing pivots, sized for anticipated gate loads plus additional live loads of up to 500 lbs per gate leaf, without damage to system.
      - 1) Provide full surface offset pivots to permit 180-degree opening, minimum 1-1/2 pair per gate leaf.
      - 2) Provide set screws to prevent accidental gate removal due to seismic activities or vehicular impact.
      - 3) Weld pivot to gates and frames.
    - b. Cane Bolts: Custom fabrications as indicated.
    - c. Locksets: Where gates are indicated to be locked provide mortise type locksets conforming to general requirements specified in Section 08 71 00 – Door Hardware.
      - 1) Panic Devices (Where Indicated): Provide panic devices conforming to general requirements specified in Section 08 71 00.
      - 2) Provide security casing for mortise locksets and panic devices and provide security screening for gates to prevent opening gates from secured side while allow egress from direction of travel for egress.
    - d. Accessories: Keepers, stops, and accessories as required for complete, secure manually operated fence gate installation.

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- D. Fabricate items with joints neatly fitted and properly secured.
- E. Grind exposed welds continuous, smooth and flush with adjacent finished surfaces, and ease exposed edges to approximate 1/32" uniform radius.
- F. Exposed Mechanical Fastenings (Slide Gate Hardware Only): Flush countersunk fasteners unobtrusively located, consistent with design of structure.
- G. Fit and shop assemble in largest practical sections for delivery.
- H. Make exposed joints flush butt type, hairline joints where mechanically fastened.
  - 1. Fabricate joints exposed to weather in manner to exclude water or provide weep holes where water could accumulate.
- I. Supply components required for proper anchorage of custom steel fence; fabricate anchorage and related components of same material and finish as custom steel fence.

- J. Finishing: Galvanize and prime paint custom steel fencing; comply with requirements of Section 09 90 00 – Painting and Coating for preparation and priming.
  - 1. Preparation: Thoroughly clean surfaces of rust, scale, grease and foreign matter prior to applying finishes.
  - 2. Galvanizing: Provide minimum ASTM A123 or A924 and A653 G90 coating; iron and steel hardware galvanized conforming to ASTM A153.
  - 3. Priming: Comply with requirements in Section 09 90 00 – Painting and Coating; do not shop prime surface areas requiring field welding; shop prime in one coat.

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Field Measurements: Take field measurements prior to preparation of shop drawings and fabrication.

#### 3.2 INSTALLATION

- A. Install fence, gates, and accessories to provide rigid structure for configurations indicated as specified and in accordance with applicable code requirements.
- B. Install line, corner, and terminal posts plumb in locations indicated on Drawings.
  - 1. Coordinate embedded post sleeves with concrete work.
  - 2. Grout posts solid where indicated on Drawings.
- C. Install gates for free, easy operation.
  - 1. Install automatic gate operators in accordance with manufacturer recommendations and installation instructions for proper smooth operation; ~~test gate operation and adjust as necessary for maximum life-span of system.~~
- D. Obtain Architect's review prior to site cutting or making adjustments that are not part of scheduled work.
- E. Install components square and level, accurately fitted and free from distortion or defects detrimental to appearance or performance.
  - 1. Supply items required to be cast into or embedded in other materials to appropriate trades.
  - 2. Ensure alignment with adjacent construction; coordinate with related work to ensure no interruption in installation.
- F. Make provision for erection stresses by temporary bracing; keep work in alignment.
- G. Field bolt and weld to match standard of shop bolting and welding; hide bolts and screws whenever possible, where not hidden, use flush countersunk fastenings.
  - 1. Perform field welding in accordance with AWS D1.1.

- 2. Bolting permitted for slide fence hardware only.
- H. After installation, touch-up field welds and scratched and damaged surfaces; use same primer as used for shop coat.
- I. Replace items damaged in course of installation and construction.

**END OF SECTION**

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