BARTOS ARCHITECTURE
COLLABORATION
ADVOCACY
RESEARCH
EDUCATION
1730 S. Amphlett Blvd
Suite 225, San Mateo
California 94402
www.bartosarchitecture.com

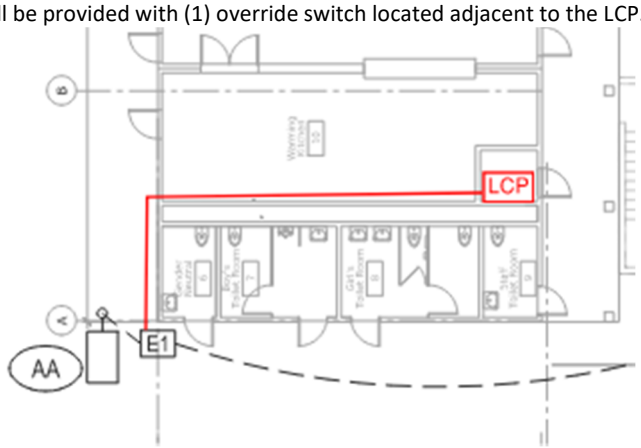
ADDENDUM 02

TO	All Plan Holders	**ISSUE DATE**	18-November-2022
		PROJECT #	17-005.5
REGARDING	**Gault Elementary– New Modular Classroom Building**	**TEXT PAGES**	11
		DRAWINGS	0
DISTRICT	Santa Cruz City Schools District	**TOTAL PAGES**	11

The information contained herein is issued as an Addendum to the Bid Documents for the Project listed above. All information included herein shall become a part of the Bid Documents for that Project.

All bidders are required to acknowledge this Addendum on their Proposal Documents. Failure to acknowledge receipt of this Addendum shall deem the Proposal unresponsive and the proposal shall be disqualified.

ITEM	REFERENCE	ACTION	ATTACHMENT
01	**Section 32 13 313 Chain Link Fencing and Gates**	**ADD: The attached specification division**	
02	**Responsibility Matrix**	**CLARIFICATION:** • General Contractor is responsible for all the mechanical equipment indicated on A0.6 including, but not limited to: hood, fans, ducting and registers. Blocking for both fans and bracing for the hood to be provided by General Contractor provided per 2/A07. • General Contractor responsible for all security devices indicated on ACEE electrical plans. • General Contractor responsible for all clock/speaker back boxes. • General Contractor responsible for training District on all newly installed devices and equipment. • General Contractor to clean and prep VCT flooring for District to wax and seal. • Existing campus EMS system is Trane Tracer Ensemble.	
03	**E0.1, E2.1 Electrical Legend, Floor Plan**	**CLARIFICATION:** • The "CAP" symbol identifies a data drop dedicated to the Access Control wireless equipment. It should be installed as a standard (1) CAT-6 data drop in the ceiling. • The "CP" symbol identifies the location of the AV touch screen display denoted by AV-6 on the AV riser diagram E5.3.	
04	**E5.3 Single Line Diagrams**	**CLARIFICATION:** • At the location of AV-4 and AV-3 (in the MPR) is the location where the AV rack and TV will be installed. The TV will be installed above a base cabinet and the AV rack(s) will be installed in the base cabinet below. The AV input will also be installed at this location. All of the AV rough in will be provided by AMS. Speakers will be wall mounted and mounted to each side of the TV. Everything shown in the AV riser diagram should be included in the bid.	

ITEM	REFERENCE	ACTION	ATTACHMENT
05	E0.1 Electrical Cover Sheet	**CLARIFICATION:** All of the low voltage systems shown on the electrical drawings are to be provided by the General Contractor. Modular contractor (AMS) will be providing the required rough in only. General Contractor will be responsible for all General Electrical Notes shown on E0.1 as it pertains to items in the scope of work. All *electrical* devices (Lighting, switches, receptacles, etc) will be provided by AMS except the kitchen hood, kitchen exhaust fan and kitchen make up air unit connections. All electrical feeders to the panels on both the 1st floor and second floor are included in the electrical scope of work. AMS will provide conduit between the first floor and second floor for the feeders and will stub the conduit to the below floor access area. The contractor is responsible for intercepting the conduit below the floor and extending it per the plans. All work shown on the ACEE "E" sheets and the "FA" sheets is the responsibility of the contractor.	
06	E1.2 New Electrical Site Plan	**CLARIFICATION:** • Sheet note #4 is not used on E1.2 and it is in reference to panel "DPN" shown on E2.1. • Sheet notes #8 and #9 should read "crawl space below the floor." There is an accessible crawl space below the floor of the existing building.	
07	E1.3 Egress Lighting Plan	**ADD:** Add the following for the exterior egress lighting. Exterior pole mounted lighting shall be connected to 1 exterior control circuit with 2#8+1#10G in 1" conduit between the "AA" fixtures and a new lighting control panel. A lighting control panel shall be provided in the custodian closet and (1) 20A-1P circuit breaker shall be added to panel EP-1P to connect the LCP and lighting. Lighting control panel shall be Wattstopper – LP8S-8-G-115. Panel shall be provided with (1) override switch located adjacent to the LCP. 	
08	E2.1 Electrical Floor Plans	**CLARIFICATION:** The rectangle "E1" symbol is an in-grade pull box called out by the Pull Box schedule located in the Lower right corner of the sheet.	
09	E4.1 Single Line Diagrams	**CLARIFICATION:** Panel DPK on E4.1 is an existing panel and does not have any scope of work on this project.	
10	E1.2, E4.1 MSB	**CLARIFICATION:** Shop drawings of the existing switchboard are not available. You may download the photos we have of the main switchboard at https://www.bartosarchitecture.com/gault-new-building.html	
11	Low Voltage Cabling	**CLARIFICATION:** All low voltage cables may be routed above the T-bar ceilings on J-hooks. In wall rough in will be provided by AMS. FA rough in to be provided by AMS.	

ITEM	REFERENCE	ACTION	ATTACHMENT
12	**Section 00 30 00 Bid Form**	**REVISION:** • Remove requirement to include Section 00 30 02 Contractor Questionnaire. • Remove requirement for 00 30 03 form. • Include Quality Bidders Prequalification form with bid.	

END OF ADDENDUM ITEMS

ISSUED BY

Brian Anderson
ba@bartosarchitecture.com

Section 32 31 13

Chain Link Fencing and Gates

Part 1. General

1.01 Related Documents

A. The Drawings and general provisions of the Contract, including General and Special Conditions and Division 1, General Requirements, apply to the work specified in this section.

B. Parts 1,2,3,4,5,6, Title 24 of the California Code of Regulations (California Building Code) is to be considered an integral part of this section. Items noted here are those specifically related to the General Contractor'

C. All California Prevailing Wage Laws apply to the work of this section.

1.02 Work Included

A. The following is a general description of the work included in this section. This description does not limit the scope of work shown in the drawings nor does it relieve the Contractor of any responsibility for coordination of **ALL** work of this Contract.

Item	Description
General	• Provide chain link fencing where shown on drawings. Provide required fence repairs where indicated on drawings. • New chain-link fence and plastic slats where shown on Drawings • New hinged gates where shown on Drawings

B. Related work may be described in other sections of this Project Manual. All sections of this Project Manual and all other Contract Documents shall be considered related by the Contractor.

1.03 Submittals

A. Provide the following submittals per the requirements of Division 1.

Item	Description
Catalog Cuts	• Description
Product Data	• Description
Samples	• Plastic Slats
Shop Drawings	• Layout of fencing with field verified dimension • Coordination with work by others, if any, such as footings and paving
Schedule	• Include Schedule entry on Gantt Chart

1.04 References / Standards

A. The following References and Standards are incorporated into the requirements of this Section as they apply to products, assembly, manufacturing procedures and installation. References shall be utilized in determining "Industry Standards" and other acceptable manufacture and installation methods but shall not relieve the Contractor of any other responsibilities of the Contract. Where conflicts occur between multiple listed references, the Contractor shall assume that the more restrictive standard applies and shall seek determination from the Architect regarding applicable standard.

References	• ASTM-A392 Specification for Zinc-coated Steel

Chain Link Fencing

- ASTM A 653/A653M Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc- Iron Alloy Coated (Galvanealed) by the Hot-Dip Process
- ASTM-F567 Practice for Installation of Chain Link.
- ASTM-F626 Specification for Fence Fittings
- ASTM-F1083 Specification for Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Weld, for Fence Structures
- ASTM F1553 Guide for Specifying Chain Link Fence
- Unless otherwise shown or specified, all materials and methods involved in chain link fence fabrication shall conform to Section 80 of the State of California, Department of Transportation Standard Specifications (DTSS).

1.05 Quality Assurance

A. Provide the following per Division 1:

Item	Description
Supervision	• Full time supervision and observation by the Contractor of all on-site Construction Activities including ordering, procurement and delivery of all materials and products manufactured or assembled off-site.
Qualifications of Workers	• General Contractor shall ensure that all workers providing labor on this project are fully competent and experienced in the area of work being performed. General Contractor shall require subcontractors to remove any unqualified workers from the project. • Chain Link Fencing shall be installed by a firm that has not less than 5-years successful experience in the installation of systems similar to those required.
Product Acceptance	• General Contractor (Superintendent) shall verify and accept all products delivered to site prior to installation. • Installer shall fully inspect all related work by other trades prior to commencing installation of new chain link fencing.
Substrate Acceptance	• General Contractor (Superintendent) shall verify all substrates / conditions prior to allowing installation of any item.

1.06 Quality Control by Contractor

A. The following specific procedures shall be required to demonstrate adequate levels of quality provided for project components and systems. Exclusion of any item from this list does not relieve the Contractor of any responsibilities for quality procedures covered elsewhere in the Contract Documents.

Item	Description
Supervision	• Per Division 1
Testing	• n/a
Special Inspections	• Per DSA Testing and Inspection Form

Mock Ups	• n/a

1.07 Quality Control by Owner

A. The following specific procedures shall be required to demonstrate adequate levels of quality provided for project components and systems. Exclusion of any item from this list does not relieve the Contractor of any responsibilities for quality procedures covered elsewhere in the Contract.

Item	Description
Observation	• Per Division 1.
Inspection	• Per CCR Title 24: Continuous Inspection by DSA Certified inspector
Testing	• Refer to DSA Testing and Inspection Sheet
Special Inspections	• Refer to DSA Testing and Inspection Sheet

1.08 Closeout

A. Provide the following Close Out materials in accordance with Division 1

Item	Description
Product Manuals	• Maintenance and Operations instructions / manuals provided by all product / material manufacturers.
System Manuals	• Maintenance and Operations instructions / manuals provided by subcontractors for assemblies / systems.
Maint. Tools/Materials	• n/a
Surplus Materials	• n/a
Training	• n/a

1.09 Warranty

A. Provide written warranty in accordance with Division 1.

Item	Description
Warranty Form	• Per Division 1 • Contractor, Subcontractor and Manufacturer to provide warranty against defects in materials or workmanship. Replacement or repair of such defects shall be repaired or replaced in a timely fashion at no addional cost to the Owner.
Warranty Period	• 1 year
Warranty Start	• Date of Substantial Completion

Part 2. Products

2.01 Acceptable Manufacturers

A. USX-Cyclone

B. San Jose Steel

C. Anchor Fence

D. Products from qualified manufacturers having a minimum of five years experience manufacturing galvanized coated chain link fencing will be acceptable by the architect as equal, if approved in writing, ten days prior to bidding, and if they meet the following specifications for design, size gauge of metal parts and fabrication.

E. Obtain chain link fences and gates, including accessories, fittings, and fastenings, from a single source.

2.02 Fencing Materials

A. Fabric:

1. Chain link, 9-gauge with a uniform square mesh measuring approximately 2 inches between its parallel sides, woven galvanized wire, with a minimum of 1.20 oz per square foot. Selvage of fabric 1-1/4" at top & bottom.

B. Posts:

1. Posts: Intermediate posts shall be hot dipped galvanized Sch. 40 steel pipe, 2-3/8 inches outside diameter. Terminal posts shall be 2-7/8 inches outside diameter for fences 6'-0" and higher.

C. Chain link fence accessories:

1. Provide items required to complete fence system. Galvanize each ferrous metal item and finish to match framing.

D. Top Rail and Tension Wire:

1. The fence shall have a continuous top rail for its full length of galvanized steel 1-5/8 inches outside diameter tubing, weighing 1.73 pounds per foot; and a bottom galvanized 6-gauge tension wire.

E. Truss Braces:

1. Truss braces and truss rods with turnbuckle attachments shall be installed between terminal posts and each adjacent intermediate post; sizes and specific locations as engineered by the fabricator and approved on the shop drawing. Braces, trusses, and hardware fittings shall be galvanized to match posts, rails, and fabric.

F. Fittings:

1. All fixed component parts, such as post tops, bands, connections and rail ends, shall be galvanized . All hog rings and tie wire shall be galvanized wire. Terminal post tops shall be simple C-shaped without ornamentation. Provide posts tops that permit the passage of top rail for intermediate posts.

G. Post caps:

1. Formed steel, cast malleable iron, or aluminum alloy weather tight closure cap for tubular posts. Provide one cap for each post.

H. Top rail and brace rail ends:

1. Pressed steel per for connection of rail and brace to terminal posts

I. Top rail sleeves:

1. 7" expansion sleeve with spring, allowing for expansion and contraction of top rail

J. Wire ties:

1. 9 gauge galvanized steel wire for attachment of fabric to line posts. Double wrap 13 gauge for rails and braces. Hog ring ties of 12-1/2 gauge for attachment of fabric to tension wire.

K. Tie Wires:

1. Secure fabric with 9 gauge aluminum ties to intermediate posts at 1'-2" on center spacing and to rails at 2'-0" on center spacing. Secure fabric to tension wire with galvanized hog rings spaced 1'-0" on center.

L. Tension (stretcher) bars:

1. One piece lengths equal to 2 inches less than full height of fabric with a minimum cross-section of 3/16" x 3/4" or equivalent fiber glass rod. Provide tension (stretcher) bars where chain link fabric meets terminal posts.

M. Truss rods & tightener:

1. Steel rods with minimum diameter of 5/16

N. Nuts and bolts are galvanized

O. Slats

1. Provide slats at locations indicated on the Drawings. Provide Standard –PDS (self-locking using horizontal bottom channel system). All slats are manufactured from a combination of color pigments, quality high density virgin polyethylene and ultraviolet inhibitors. Architect to select color.

P. Gate Frame:

1. Fabricate chain link swing gates in accordance with ASTM F 900 using galvanized steel tubular members, 2" diameter, weighing 2.60 lb/ft. Fusion or stainless steel welded connections forming rigid one-piece unit.
2. For gates over 8' high or 15' wide, provide minimum 1-1/2" diameter additional horizontal and vertical interior members to ensure proper strength.
3. Hardware materials: Hot dipped galvanized steel or malleable iron shapes to suit gate size.
4. 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° inward or 180° outward.
5. Latch: Forked type capable of retaining gate in closed position and have provision for padlock. Latch shall permit operation from either side of gate. Latch shall conform with ADA and California Building Code standards.
6. Keeper: Provide keeper for each gate leaf over 5' wide. Gate keeper shall consist of mechanical device for securing free end of gate when in full open position.
7. Double gates: Provide drop rod to hold inactive leaf. Provide gate stop pipe to engage center drop rod. Provide locking device and padlock eyes as an integral part of latch, requiring one padlock for locking both gate leaves.
8. Gate posts: Standard weight schedule 40; minimum yield strength of 25,000 psi , size as indicated. Hot-dipped galvanized with minimum 1.8 oz/ft² of zinc. Gates with leaf 6'-0" or less, post shall be 2-7/8" in dia. Minimum 5.79 lbs/ft. Gates with leaf 6'-1" to 12'-0", post shall be 4" in dia. Minimum 9.11 lbs/ft. Gates with leaf over 12'-0", posts to be coordinated with Architect.
9. Kick plates: 1/4" thick galvanized steel plate 12" high by full width of gate to be installed on push side of gate.

Part 3. Execution

3.01 General

A. Layout

1. Prior to commencing installation, Contractor shall stake layout and request a review by the District Representative to determine adjustments on site from locations shown on drawings.

B. Verify areas to receive fencing are completed to final grades and elevations.

3.02 Installation

A. Chain Link Fence

1. Fabric: Shall be installed on the side of the posts closest to the street; tops and bottom selvage knuckled and attached to posts with 9-gauge hog rings spaced no further than twelve inches apart. Attach so that fabric remains in tension after pulling force is released. Leave approximately 2” between finish grade and bottom selvage.

B. Posts:

1. Space line posts uniformly, maximum spacing 10’-0” on center.

C. Concrete Set:

1. Drill holes in firm, undisturbed or compacted soil. Holes shall have diameter 4 times greater than outside dimension of post, minimum 1’-0” which, 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. Slope to direct water away from posts. Check each post for vertical and top alignment, and maintain in position during placement and finishing operations.

D. Termination Posts:

1. Locate terminal post at each fence termination and change in horizontal or vertical direction of 30° or more. Install horizontal pipe brace at mid-height for fences 6’-0” and over, on each side of terminal posts. Firmly attach with fittings. Install diagonal truss rods at these points. Adjust truss rod, ensuring posts remain plumb.

E. Tension Wire:

1. Provide tension wire at bottom of fabric. Install tension wire before stretching fabric and attach to each post with ties. Secure tension wire to fabric with 12-1/2 gauge hog rings 24” on center.

F. Tension (stretcher) Bars:

1. Pull fabric taut; thread tension bar through fabric and attach to terminal posts with bands or clips spaced maximum of 15” on center.

G. Top Rail:

1. Install lengths, 21’-0” maximum. Connect joints with sleeves for rigid connections for expansion/contraction. Top rail shall pass through openings provided in the post tops and each length shall be coupled with a sleeve coupling, or by a 3 inch long swaged end. Fabric shall be attached to the top rail by means of double-wrap tie wires spaced at intervals of approximately 2'-0".

H. Tie Wires:

1. Bend ends of wire to minimize hazard to persons and clothing

I. Fasteners

1. Install nuts on side of fence opposite fabric side for added security

J. Slats:

1. Install slats in accordance with manufacturer's instructions

K. Swinging Gates

1. Gate Post Installation: Concrete set gate posts: Drill holes in firm, undisturbed or compacted soil. For gate leafs 6'-0" or less, holes shall have diameter 4 times greater than outside dimension of post, minimum 1'-0", and depths approximately 6" 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" 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. Set keeper, stops, sleeves into concrete. Check each post for vertical and top alignment, and maintain in position during placement and finishing operations. For gate leafs greater than 6'-0" coordinate installation with drawings and Architect.
2. Gate Installation: Install gates plumb, level, and secure for full opening without interference. Attach hardware by means which will prevent unauthorized removal. Adjust hardware for smooth operation.
3. All Gates shall meet all applicable applications for doors.

End of Section

This page intentionally left blank