

#### LONG BEACH COMMUNITY COLLEGE DISTRICT CONTRACTS MANAGEMENT DEPARTMENT 4901 EAST CARSON STREET LONG BEACH, CA 90808 Ph. (562) 938-4843

#### BID 22-007 CLARK AVENUE FENING REPLACEMENT PROJECT AT THE LIBERAL ARTS CAMPUS

#### ADDENDUM NO. 2

#### April 07, 2022

## This Addendum forms a part of the Contract Documents and modifies the original Contract Documents. Acknowledge receipt of the Addendum on Section 1.2 of the Bid Proposal. Failure to do so may result in the bid being deemed non-responsive.

**Note:** It is the responsibility of all bidders to notify all subcontractors from whom they request bids and from whom they accept bids of all changes contained in this addendum.

#### **ADDENDUM NO. 2 CONTENTS**

- I. CHANGES TO BID FORM DOCUMENTS
- II. PRE-BID INQUIRIES (PBI'S) AND RESPONSES
- **III. CHANGES TO SPECIFICATIONS**
- IV. CHANGES TO DRAWINGS
- V. ATTACHMENTS

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#### I. CHANGES TO BID FORM DOCUMENTS

To allow ample time to submit complete bids based on the information provided in this addendum, bids will be due no later than 2:00PM on Monday, April 18 2022. Bid proposals must be received by the District's Purchasing/Contracts Manager, Erica Bonilla by email only to <u>ebonilla@lbcc.edu</u>. Bid proposals submitted thereafter the indicated due date will be rejected for non-responsiveness.

#### II. PRE-BID INQUIRIES (PBIs) AND RESPONSES

- 1. Q. Specs call out 11ga 2" chain link fabric. Please confirm that this is correct.
  - A: The Zinc-Coated Steep Fabric is to be made of 9 gage wires in 2-inch mesh. Refer to Chain Link Fence Specifications Revision 1, Part 2.1 and ASK 001, included in Addendum #2.
- 2. Q. Specs call out some of the fittings as vinyl coated or painted. Please clarify as to whether the fence is galvanized finish or vinyl coated finish.
  - A: The fence is to be galvanized. Refer to Chain Link Fence Specifications Revision 1, Part 2.1, included in Addendum #2.
- 3. Q. Our manufacturers are asking us for the specs on the fence slats. Can you provide us with further detail?
  - A: Refer to Chain Link Fence Specifications Revision 1, Part 2.4 Accessories, included in Addendum #2.

- 4. Q. If what appears to have two fence lines in the same area. Looks like one of the fences is at concrete grade. I also see the higher netting nearby. We need to know if once fence needs removed or both fences need removed. We also need to know if the netting is to be removed or remain in place during construction?
  - A: The outer fence is the only fence that needs to be removed. The second fence with the netting is to remain in place during construction.
- 5. Q. The Specs indicate both ASTM standards and Federal Standards, please confirm if Buy American provisions apply or if both foreign and domestic is acceptable.
  - A: We allow domestic and foreign material. No restriction on material suppliers as long as it meets the required specifications. Refer to Chain Link Fence Specifications Revision 1, Part 1.2 References, included in Addendum #2.

#### **III. CHANGES TO SPECIFICATIONS**

- 6. 32 3113 Chain Link Fence Specifications Revision 1
  - 32 3113 Chain Link Fence Specifications Revision 1 supersedes all previous revisions.

#### IV. CHANGES TO DRAWINGS <u>Architectural</u>

- 7. ASK 001 Typical Fence Elevation / Section. (Included in Addendum 2)
  - Rearranged Legend and Post Schedule in drawing area (New Sheet Added)

#### **Images**

- 8. AIM 001– Fence Image 1. (Included in Addendum 2)
  - Black and white image showing privacy slats example and razor wire to be removed (New Sheet Added).
- 9. AIM 002– Overhead view with measurements. (Included in Addendum 2)
  - Black and white image showing the job site and approximate measurements of fencing, privacy slats, and windscreen (New Sheet Added).
- 10. AIM-003 Unique Windscreen Lengths (Included in Addendum 2)
  - Black and white image showing measurements of windscreen panels of unique lengths along fence (New Sheet Added).

#### V. ATTACHMEMTS

- 1. Addendum 2 Specifications 32 3113 Chain Link Fence Specifications Revision 1
- 2. Addendum 2 Drawings SK 17x11 Format ASK-001
- 3. Addendum 2 Images SK 17x11 Format AIM-001, AIM-002, AIM-003

#### \*\*\*END OF ADDENDUM NO. 2\*\*\*

#### LONG BEACH COMMUNITY COLLEGE DISTRICT

Erica Bonilla Deputy Director Purchasing & Contracts Date

#### 32 3113 - CHAIN LINK FENCES SPECIFICATIONS Revision 1 04/07/2022

#### PART1 GENERAL

#### 1.1 SUMMARY

- A. Section Includes:
  - 1. Chain link fencing for exterior installation, where indicated on plans and photos.
  - 2. Galvanized posts and galvanized chain link wire fabric.
  - 3. Windscreens
- B. Items Not Included:
  - 1. Padlocks: Padlocks where required, will be provided by Owner.

#### 1.2 REFERENCES

- A. California Code of Regulations (CCR), Title 24, Part 2, California Building Code (CBC), Volumes 1 and 2, 2016 edition.
  - 1. Chapter 11B Accessibility to Public Buildings, Public Accommodations, Commercial Buildings, and Public Housing.
- B. ASTM International (ASTM):
  - 1. ASTM A 123 Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
  - 2. ASTM A153 Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware
  - ASTM A 392 Standard Specification for Zinc-Coated Steel Chain-Link Fence Fabric
  - 4. ASTM A641 Standard Specification for Zinc–Coated (Galvanized) Carbon Steel Wire
  - 5. ASTM A 780 Standard Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings
  - 6. ASTM C 1107 Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink)
  - 7. ASTM F 567 Standard Practice for Installation of Chain-Link Fence
  - 8. ASTM F 1043 Standard Specification for Strength and Protective Coatings on Steel Industrial Fence Framework
  - 9. ASTM F 1083 Standard Specification for Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures
- C. Chain Link Fence Manufacturer's Institute (CLFMI):
  - 1. Product Manual
  - 2. WLG2445 Chain Link Fence Wind Load Guide for the Selection of Line Posts and Line Post Spacing.

#### 1.3 QUALITY ASSURANCE

A. Comply with standards of Chain Link Fence Manufacturer's Institute (CLFMI).

B. Provide chain link fence and gates as produced by single manufacturer including necessary erection accessories, fittings, and fastenings.

#### PART 2 PRODUCTS

#### 2.1 FABRIC

- A. Zinc-Coated Steel Fabric:
  - 1. Conforming to ASTM A 392, Class 1, galvanized before weaving (GBW) a. Top and bottom selvages knuckled.
  - 2. Provide 9 gage wires in 2-inch mesh, unless noted otherwise.

#### 2.2 POSTS, RAILS, AND ASSOCIATED ITEMS

- A. Posts:
  - 1. Round steel pipe and rails complying with ASTM F 1043.
    - a. Material Design Group IA, Table 3 Heavy Industrial Fence Framework.
  - 2. Schedule 40 galvanized pipe conforming to ASTM F 1083
    - a. ASTM F 1043, Material Design Group IA
    - 1) External and internal coating Type A.
  - 3. Intermediate Line Posts for fabric heights:
    - a. 8 feet to 12 feet: 2.875 inch O.D., 5.79 lb/ft.
  - 4. Terminal (End Pull and Corner) Posts for fabric heights:
    - a. 8 feet to 12 feet: 4 inch O.D., 9.11 lb/ft.
- B. Top and Brace Rails:
  - 1. FS RR-F-191/3, Type II, Class 1.
  - 2. Size: 1.660 inch O.D., 1.806 lb. perft.
- C. Bottom Tension Wire:
  - 1. Coiled spring tension wire:
  - 2. 7 gage.
- D. Fabric Connections:
  - 1. Tension Bars (rod):
    - a. 3/16 by 3/4 inch mild steel flats.
    - b. galvanized
  - 2. Steel Bands:
    - a. Mild steel:
      - 1) 1/8 by 1 inch, except where otherwise indicated.
  - 3. Bolts:
    - a. Minimum 3/16 inch diameter.
    - b. Cadmium plated.
  - 4. Fabric Ties:
    - a. No.9 gage wire at line posts.
    - b. No.14 wire for top and brace rails.
- E. Post Caps:
  - 1. Provide following:
    - a. Steel, wrought iron, or malleable iron, designed as weathertight closure cap.
    - b. One cap for each post.
    - c. Caps with openings to permit through passage of top rail.

### 2.3 WINDSCREENS

- A. Manufacturer:
  - 1. Contractor to provide data sheet and all specifications for proposed windscreen prior to completion of the project.
- B. Construction:
  - 1. Manufactured with heavy polypropylene webbing reinforced hems with grommets.
    - a. Air Flow: > 150 cfm.
    - b. Shade Block: 95 percent.
    - c. 30 x 16 EPI/PPI
    - d. 100% PP Fiber Content
    - e. 420 MD / 225 CD Grab Tensile Strength
    - f. 125 MD / 90 CD Trapezoid Tear Strength
  - 2. Grommets:
    - a. Heavy-duty solid brass grommets.
    - b. Located every 12 inches on four sides.
  - 3. Heights:
    - a. 80 inches.
  - 4. Lengths:
    - a. As indicated on Drawings.
  - 5. Material:
    - a. Closed Mesh Screen Polypropylene.
    - b. Weight: 5.6 ounces per square yard.
  - 6. Tie Wraps:
    - a. For attaching windscreen to fencing
      - 1) 7 inches long.
    - b. 50 lbs breaking strength.
      - 1) UV stabilized
      - 2) Furnish quantity necessary for complete installation.
  - 7. Color: Black.
  - 8. Warranty:
    - a. Three years against cracking and peeling when installed with 50 lb tie wrap

### 2.4 ACCESSORIES

- A. Privacy Slats:
  - 1. Pre-inserted PVC slats woven in chain link mesh.
    - a. Extruded PVC shape, when inserted into fabric creating 95 percent privacy screen.
    - b. Slat Size: Nominal 1-1/8 inches wide (wide enough to be weaved into 2 inch mesh).
  - 2. Color: Green
  - 3. Product and Manufacturer:
    - a. Priva-Max by Merchants Metals.
    - b. SlatMaster by Master Halco.

### 2.5 MISCELLANEOUS MATERIALS

A. Concrete for Footings:

- 1. Comply with requirements as indicated on drawings.
- B. Nonshrink Nonmetallic Grout:
  - 1. Factory premixed, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107.
  - 2. Provide one of following or grout specifically recommended by manufacturer for types of applications indicated.
    - a. Masterflow 713 Plus; Master Builders Div., BASF Building Systems
    - b. Five Star Grout; Five Star Products, Inc.
    - c. SikaGrout 212; Sika Corporation.

#### 2.6 GALVANIZING

- A. Provide galvanized finish on steel framework and appurtenances, with not less than following weight of zinc per square foot:
  - 1. Zinc-Coated Steel Fabric:
    - a. Generally 1.2 oz. per square foot, complying with ASTM A 392, Class 1.
    - b. For 6 and 9 Gage Wire: 2.0 oz. per square foot, complying with ASTM A 392, Class 2.
  - 2. Pipe: 1.8 oz. per square foot, complying with ASTM A 392, Class 1.
  - 3. Hardware and Accessories: Comply with Table 1 of ASTM A 153.

#### 2.7 PERFORMANCE

- A. Wind Load:
  - 1. General:
    - a. Comply with CLFMI WLG2445 Chain Link Fence Wind LoadGuide
  - 2. Design of chain link fence with privacy slats is based on Wind Speed of 70 miles per hour, Exposure B.

#### PART 3 EXECUTION

#### 3.1 INSTALLATION – GENERAL

- A. General:
  - 1. Install fence to comply with ASTM F 567.
  - 2. Do not begin installation and erection before final grading is completed, unless otherwise permitted.
  - 3. Contractor is responsible for securing the site while performing work.
  - 4. Contractor to conduct site survey to locate all underground utilities within the work area before commencing any excavation.
  - 5. Contractor to verify all dimension in the field prior to ordering materials.
- B. Setting Posts:
  - 1. General:
    - a. Install posts at maximum 10 feet on centers unless otherwise indicated.
  - 2. Setting Posts in Concrete Footings:
    - a. Overall Depth of Concrete: Minimum 36 inches.
    - b. Post Embedment: Minimum 30 inches.

- c. Maintain footings minimum of 1 inch clear of property lines or as indicated.
- d. Unless otherwise indicated, extend concrete footings 2 inches above grade and trowel to crown to shed water.
- C. Fabric:
  - 1. Install fabric on security side of posts unless otherwise indicated.
  - 2. Set bottom of fabric to clear ground or paving by 1/2 inch.
    - a. Fence heights given are to top of fabric.
  - 3. Secure fabric to posts with ties spaced at 16 inches maximum.
    - a. Hook tie at both ends with 9 gage wire
    - b. Wrap tie around fabric at both ends, not less than two turns with 11 gage wire.
    - c. Hooked ties with links not permitted.
  - 4. Secure fabric to top rail with 14 gage ties not more than 18 inches on center, wrapped not less than two turns.
  - 5. Secure tie ends with not less than two full twists
    - a. Turn ends so as not to be a hazard.
- D. Rails:
  - 1. Top Rail:
    - a. Provide top rail for fencing.
  - 2. Brace Rails:
    - a. Provide horizontal brace rails adjacent to terminal, angle, gate and corner posts, for fencing 6 feet high or higher.
    - b. Secure brace rails to posts with rail end fittings and rail end bands.

#### 3.1 COVERS AND ENCLOSURES

A. Provide as indicated with materials and installation same as for fencing except as specifically noted.

#### 3.2 REPAIR

- A. Galvanized Surfaces:
  - Clean field welds, bolted connections, and abraded areas.
    - a. Repair galvanizing to comply with ASTM A 780.

#### 3.3 CLEANUP

1.

A. Remove rubbish, debris and waste materials and legally dispose of off Project Site.

#### 3.4 PROTECTION

A. Protect Work until Substantial Completion

#### **END OF SECTION**





# CONCRETE

- 1. ALL PORTIONS OF WORK PERTAINING TO CONCRETE CONST CONFORM TO TITLE 24, PART 2, CHAPTER 19A.
- 2. CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY. MIX DESIGNS SHALL CONFORM TO ACI 318, SEC.26.4, AND CBC SEC.1903A, & SEC.1904A. MIX DESIGNS SHALL INCORPORATE THE FOLLOWING CRITERIA:
  - MINIMUM OF 5 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE. MAXIMUM OF 7 SACKS OF CEMENT PER YARD OF CONCRETE.
  - MAXIMUM WATER/CEMENT RATIO (BY WEIGHT) OF CONCRETE IN CONTACT WITH SOIL SHALL BE 0.45.
  - MAXIMUM SLUMP SHALL NOT EXCEED  $3^{"} \pm 1^{"}$  FOR FOOTINGS, SLABS ON GRADE, AND MASS CONCRETE; AND  $4^{"} \pm 1^{"}$  FOR OTHER CONCRETE. SLUMP LIMITATIONS NOTED SHALL APPLY TO CONCRETE MIX PRIOR TO THE ADDITION OF ANY WATER-REDUCING ADMIXTURES OR SUPER-PLASTICIZERS. SLUMP FOR CONCRETE THAT INCLUDES A WATER REDUCING ADD MIXTURE MAY INCREASE TO 5" ±1".
- 3. SCHEDULE OF STRUCTURAL CONCRETE 28 DAY MINIMUM STRENGTHS AND TYPES:
  - CLF Footing

STRUCTION STRLL
INCOMUNATION SHALL

145 PCF, f'c = 3000 PSI

- LEGEND:
- SIZE.

- 8. CONCRETE FOOTING.

## NOTES:

POST SCHEDULE		
FENCE HEIGHT	END POST	LINE POST
8' HIGH	4.0" O.D. SCH. 40	2.375" O.D. SCH. 40

1. CHAIN LINK FENCE MESH. SEE SPECIFICATIONS FOR WIRE GAUGE AND MESH

2. KNUCKLED TOP AND BOTTOM SELVAGE. 3. HORIZONTAL RAIL TIRE WIRE. 9 GAUGE WIRE AT 24" MAXIMUM O.C. END/CORNER POST. SEE PLANS FOR SIZE. 5. LINE POST. SEE SCHEDULE FOR SIZE BASED ON HEIGHT. 6. HORIZONTAL RAIL. SEE SCHEDULE FOR SIZE BASED ON HEIGHT. 7. ADJUSTABLE TRUSS ROD ASSEMBLY AND TURNBUCKLE. SEE SPECIFICATIONS FOR SIZE. 9. ADJACENT FINISH GRADE. 10. FLAT TENSION BAR PER SPECIFICATIONS. 11. TENSION CLIP/BAND WITH HARDWARE. 12. DOMED POST CAP, TYPICAL. 13. LINE POST CAP. 14. 120 FT OF GREEN PRIVACY SLATS

A. CONTRACTOR TO VERIFY ALL ATTACHMENTS, DIMENSIONS AND INSTALL PER MANUFACTURERS RECOMMENDATIONS. B. ANY COMPONENT REQUIRED FOR A COMPLETE FENCE SYSTEM, BUT NOT SHOWN SHOULD BE CONSIDERED A PART OF THESE DRAWINGS AND INCLUDED IN THE FINAL INSTALLED SYSTEM. C. CONTRACTOR TO BE RESPONSIBLE FOR COORDINATING FENCE INSTALLATION WITH THIS REFERENCE SHEET.

> HORIZONTAL FOOTING FOOTING CLASS DEPTH RAILS DIAMETER 1.66" OD 3'-6" 14" SCH. 40

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No razor wire to be installed with new fencing, only top rail

## Privacy slats color: Green

- 1. Where fence is to be replaced, it is to be replaced in
- 2. Contractor must scan for utility lines before construction is to proceed.
- 3. Contractor must repair/replace any damaged irrigation lines and hard-scape.
- 4. All nearby trees, plants, and concrete are to be protected in place.
- 5. Contractor to leave 2 inch bottom clearance between finish grade or surface and bottom selvage unless otherwise indicated.



<image/>
Project Title Clark Street Fence Project
Revisions    Number Description Date   2 04/11/2022
Sheet Title Fence Image 1
Sheet Number AIM - 001



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Detail 1: Offset portion of fence







1

Windscreen Width #1: 37 inches



Windscreen Width #2: 14 inches

4

6



Windscreen Width #3: 52 inches



Project Title Clark Street Fence Project
Revisions   Date
Sheet Title Unique Windscreen Lengths
Sheet Number AIM - 003