HHS0007812 El Paso SSLC Site Electrical and Water Distribution Replacement
for State Supported Living Center El Paso, Texas
Project Number: 18-117-ELC
Addendum #2
June 11, 2020

Notice to Bidders:

This Addendum #2 shall be considered part of the Contract Documents for the above-mentioned project as though it were integral with the specifications and drawings.

QUESTIONS AND ANSWERS ARE SUMMARIZED BELOW:

1. Questions from Potential Proposer(s):
   A. Questions and responses to questions, refer to attached AD03-01, HHS0007812 Vendor Questions of 2020-06-08.

SPECIFICATIONS:

Division 31:

1. Add Specification SECTION 32 12 16 FLEXIBLE PAVEMENT to the project, refer to AD03-02.

2. Add Specification SECTION 32 31 13 - CHAIN LINK FENCES AND GATES to the project, refer to AD03-03.

ATTACHMENTS:

AD03-1. HHS0007812 Vendor Questions of 2020-06-08.
AD03-2. Specification SECTION 32 12 16 FLEXIBLE PAVEMENT
AD03-3. Specification SECTION 32 31 13 - CHAIN LINK FENCES AND GATES

SECTION 32 12 16 - FLEXIBLE PAVEMENT

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes asphaltic concrete paving, wearing binder, and base course; surface sealer; and aggregate subbase course.

1.2 SUBMITTALS

A. Product Data: Submit product information.

B. Design Data: Submit mix design of each class of mix.

1.3 QUALITY ASSURANCE

A. Perform Work in accordance Project State Highway standards.

B. Mixing Plant: Conform to Project State Highway standards

C. Maintain one copy of each document on site.

D. Obtain materials from same source throughout.

1.4 ENVIRONMENTAL REQUIREMENTS

A. Do not place asphalt when ambient air or base surface temperature is less than 40 degrees F, or surface is wet or frozen.

B. Place bitumen mixture when temperature is not more than 15 degrees F below bitumen supplier's bill of lading and not more than maximum specified temperature.

PART 2 – PRODUCTS

2.1 FLEXIBLE PAVEMENT

A. Asphalt Cement: ASTM D946. In accordance with Project State Highway standards.

B. Aggregate for Base Course Mix:

1. Coarse Gravel (Type A): Pit run, natural stone; free of shale, clay, friable material, sand, debris.
2. In accordance with Project State Highway standards.

C. Aggregate for Binder Course Mix: 4.5 to 6 percent of asphalt cement by weight in mixture. In accordance with Project State Highway standards.

D. Aggregate for Wearing Course Mix: 5 to 7 percent of asphalt cement by weight in mixture. In accordance with Project State Highway standards.

E. Fine Aggregate: In accordance with Project State Highway standards.

F. Mineral Filler: Finely ground particles of limestone, hydrated lime or other mineral dust, free of foreign matter.

G. Primer: Homogeneous, medium curing, liquid asphalt. In accordance with Project State Highway standards.

H. Tack Coat: Homogeneous, medium curing, liquid asphalt. In accordance with Project State Highway standards.

2.2 ASPHALT PAVING MIX

A. Use dry material to avoid foaming. Mix uniformly.

B. Base Course: 3.0 to 6 percent of asphalt cement by weight in mixture in accordance with Project State Highway standards.

C. Binder Course: 4.5 to 6 percent of asphalt cement by weight in mixture in accordance with Project State Highway standards.

D. Wearing Course: 5 to 7 percent of asphalt cement by weight in mixture in accordance with Project State Highway standards.

2.3 PAVEMENT MARKING PAING

A. Latex, waterborne emulsion, lead and chromate free, ready mixed, complying with FS TT-P- 1952, with drying time of less than 3 minutes.

1. Color: As scheduled.

2.4 SOURCE QUALITY CONTROL AND TESTS

A. Test samples in accordance with project State Highway Standards.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify gradients and elevations of base.

B. Verify compacted subgrade subbase is dry and ready to support paving and imposed loads.

3.2 PREPARATION

A. Apply primer in accordance with Project State Highway standards.

B. Use clean sand to blot excess primer.

C. Apply tack coat in accordance Project State Highway standards.

D. Apply tack coat to contact surfaces of curbs, gutters.

E. Coat surfaces of catch basin frames with oil to prevent bond with asphalt pavement. Do not tack coat these surfaces.

3.3 INSTALLATION - ASPHALT PAVEMENT SINGLE COURSE

A. Install Work in accordance with Project State Highway standards.

B. Place asphalt within 24 hours of applying primer or tack coat.

C. Place to 2 ½ inch compacted thickness.

D. Install gutter drainage grilles and frames and manhole frames in correct position and elevation.

E. Compact pavement by rolling to specified density. Do not displace or extrude pavement from position. Hand compact in areas inaccessible to rolling equipment.

F. Perform rolling with consecutive passes to achieve even and smooth finish without roller marks.

3.4 TOLERANCES

A. Flatness: Maximum variation of 1/4 inch measured with 10-foot straight edge.

B. Scheduled Compacted Thickness: Within 1/4 inch.

C. Variation from Indicated Elevation: Within ½ inch.

3.5 PAVEMENT MARKING

A. Do not apply pavement marking paint until layout, colors and placement have been verified with Architect.

B. Allow to cure as recommended by paint manufacturer before staring pavement marking.

C. Sweep and clean surface to eliminate loose material and dust.

D. Apply paint with mechanical equipment to produce pavement markings, of dimensions indicated, with uniform, straight edges. Apply at manufacturer's recommended rates to provide a minimum wet film thickness of 15 mils (0.4 mm).

3.6 PAVEMENT MARKING SCHEDULE

A. Parking stalls: White – 4" wide stall lines at 9'-0" o.c. unless noted otherwise.

B. Accessible Stalls: Blue – 4" wide stall lines, blue curb, blue/white international symbol of accessibility.

C. Accessible Aisles: Blue – 4" wide stall lines and 4" wide 45-degree diagonal stripes at 2'-0" o.c.

D. Striped Islands: White – 4" wide 45-degree diagonal stripes at 2'-0" o.c. as shown on Site Plan.

E. Fire Lane Areas: Red – Painted concrete curb at all curbs adjacent to drive aisles.

END OF SECTION 32 12 16

SECTION 32 31 13 - CHAIN-LINK FENCES AND GATES

PART 1 - GENERAL

1.1. RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2. SUMMARY

A. This Section includes the following:

1. Chain-Link Playground Fence: Residential.
2. Chain-Link gates and Trash Enclosure Gates: Swing.
3. Vinyl slats for chain link trash enclosure gate.

B. Related Sections include the following:

1. Division 2 Section "Earthwork" for site excavation, fill, and backfill where chain-link fences and gates are located.
2. Division 3 Section "Cast-in-Place Concrete" for concrete post concrete fill.

1.3. SUBMITTALS

A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for chain-link fences and gates.

1. Fence and gate posts, rails, and fittings.
2. Chain-link fabric, reinforcements, and attachments.
3. Gates and hardware.
4. Accessories: Privacy slats including color chart.

1.4. QUALITY ASSURANCE

A. Installer Qualifications: An experienced installer who has completed chain-link fences and gates similar in material, design, and extent to those indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

1.5. PROJECT CONDITIONS

A. Field Measurements: Verify layout information for chain-link fences and gates shown on Drawings in relation to property survey and existing structures. Verify dimensions by field measurements.

PART 2 - PRODUCTS

2.1. CHAIN-LINK FENCE FABRIC

A. General: Height indicated on Drawings. Provide fabric in one-piece heights measured between top and bottom of outer edge of selvage knuckle or twist. Comply with ASTM A 392, CLFMI CLF 2445, and requirements indicated below:

1. Steel Wire Fabric: Metallic-coated wire with a diameter of 0.120 inches.
   a). Mesh Size: 2 inches.
   b). Weight of Metallic (Zinc) Coating: ASTM A 392, Type II, Class 1, 1.2 oz./sq. ft.(366 g/sq. m) with zinc coating applied before or after weaving.

2.2. RESIDENTIAL FENCE AND GATE FRAMING

A. Posts and Rails: Round cold-formed, electric-resistance-welded, steel pipe or tubing, with minimum yield strength of 45,000 psi (310 MPa) and with outside dimension, minimum wall thickness, and weight complying with ASTM F 761 or ASTM F 654 for the following fence height and strength and stiffness requirements:

1. Fence Height: 3’-0” min. above adjacent grade.
2. Duty Rating: Medium.
3. Tube Size and Thickness:
   a). Top Rail: 1.66 inches.
   b). Line Post: 1.66 inches.
   c). Terminal Post: 1.90 inches.
   d). Tube or Pipe Thickness: 0.065 inch.
4. Gates: Comply with ASTM F 654 and the following:
   a). Type: II, single swing at playground double swing at trash enclosure frame tubing.
   b). Fabric Height: 3’-0” at playground, 6’-0” at trash enclosures.
   c). Leaf Width: 3’-0” clear opening at playground, (2) 5’-0” at trash enclosures.
5. Hardware: Latches permitting operation from both sides of gate, hinges, center stops, cane bolt and keeper.

6. Metallic-Coated Steel: Posts, rails, and frames protected with an external coating of not less than 0.6 oz. of zinc/sq. ft. (183 g of zinc/sq. m), a

chromate conversion coating, and a clear, verifiable polymer film; with an internal protective coating of not less than 0.6 oz. of zinc/sq. ft. (183 g of zinc/sq. m) or 81 percent, not less than 0.3-mil-thick, zinc pigmented coating.

2.3. TENSION WIRE

A. General: Provide horizontal tension wire at the following locations:

1. Location: Extended along bottom of fence fabric.

B. Metallic-Coated Steel Wire: 0.177-inch-diameter, marcelled tension wire complying with ASTM A 817, ASTM A 824, and the following:

1. Metallic Coating: Type II, zinc coated (galvanized) by hot-dip process, with the following minimum coating weight:
   a). Matching chain-link fabric coating weight.

2.4. FITTINGS

A. General: Comply with ASTM F 626.

B. Post and Line Caps: Provide for each post.

1. Line post caps with loop to receive top rail.

C. Rail and Brace Ends: Attach rails securely to each corner, pull, and end post.

D. Tension and Brace Bands: Pressed steel.

E. Tension Bars: Steel, length not less than 2 inches shorter than full height of chain-link fabric. Provide one bar for each gate and end post, and two for each corner and pull post.

F. Tie Wires, Clips, and Fasteners: According to ASTM F 626.

1. Standard Round Wire Ties: For attaching chain-link fabric to posts, rails, and frames, complying with the following:
   a). Hot-Dip Galvanized Steel: 0.106-inch-diameter wire; galvanized coating thickness matching coating thickness of chain-link fence fabric.
   b). Aluminum: ASTM B 211 (ASTM B 211M); Alloy 1350-H19; 0.148-inch-diameter, mill-finished wire.

2.5. PRIVACY SLATS

A. Material: PVC, UV-light stabilized, not less than 0.023 inch thick; sized to fit mesh specified for vertical installation.

B. Color: As selected by Architect from manufacturer's full range.

C. Location: Privacy slats at trash enclosures and trash enclosure gates only.

PART 3 - EXECUTION

3.1. EXAMINATION

A. Examine areas and conditions, with Installer present, for compliance with requirements for a verified survey of property lines and legal boundaries, site clearing, earthwork, pavement work, and other conditions affecting performance.

1. Do not begin installation before final grading is completed, unless otherwise permitted by Architect.
2. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2. PREPARATION

A. Stake locations of fence lines, gates, and terminal posts. Do not exceed intervals of 500 feet or line of sight between stakes. Indicate locations of utilities, lawn sprinkler system, underground structures, benchmarks, and property monuments.

3.3. INSTALLATION, GENERAL

A. Install chain-link fencing to comply with ASTM F 567 and more stringent requirements specified.

1. Install fencing on established boundary lines inside property line.

3.4. CHAIN-LINK FENCE INSTALLATION

A. Post Excavation: Drill or hand-excavate holes for posts to diameters and spacing's indicated, in firm, undisturbed soil.

B. Post Setting: Set posts in concrete at spacing not to exceed 10 feet into firm, undisturbed soil.

1. Verify that posts are set plumb, aligned, and at correct height and spacing, and hold in position during setting with concrete or mechanical devices.

2. Concrete Fill: Place concrete around posts to dimensions indicated and vibrate or tamp for consolidation. Protect above ground portion of posts from concrete splatter.
    a). Exposed Concrete: Extend 2 inches above grade; shape and smooth to shed water.

C. Terminal Posts: Locate terminal end and corner per ASTM F 567 and terminal pull posts at changes in horizontal or vertical alignment of 15 degrees or more.

D. Line Posts: Space line posts uniformly at 10 feet o.c.

E. Post Bracing and Intermediate Rails: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Install braces at end posts and at both sides of corner and pull posts.

F. Tension Wire: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Pull wire taut, without sags. Fasten fabric to tension wire with 0.120-inch-diameter hog rings of same material and finish as fabric wire, spaced a maximum of 24 inches o.c. Install tension wire in locations indicated before stretching fabric.

    1. Bottom Tension Wire: Install tension wire within 4 inches of bottom of fabric and tie to each post with not less than same diameter and type of wire.

G. Top Rail: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Run rail continuously through line post caps, bending to radius for curved runs and terminating into rail end attached to posts or post caps fabricated to receive rail at terminal posts. Provide expansion couplings as recommended in writing by fencing manufacturer.

H. Chain-Link Fabric: Apply fabric to inside of enclosing framework. Leave 1 inch between finish grade or surface and bottom selvage, unless otherwise indicated. Pull fabric taut and tie to posts, rails, and tension wires. Anchor to framework so fabric remains under tension after pulling force is released.

I. Tension or Stretcher Bars: Thread through fabric and secure to end, corner, pull, and gate posts with tension bands spaced not more than 15 inches o.c.

J. Tie Wires: Use wire of proper length to firmly secure fabric to line posts and rails. Attach wire at 1 end to chain-link fabric, wrap wire around post a minimum of 180 degrees, and attach other end to chain-link fabric per ASTM F 626. Bend ends of wire to minimize hazard to individuals and clothing.

1. Maximum Spacing: Tie fabric to line posts at 12 inches o.c. and to braces at 24 inches o.c.

K. Fasteners: Install nuts for tension bands and carriage bolts on the side of the fence opposite the fabric side.

L. Privacy Slats: Install slats in direction indicated, securely locked in place.

1. Vertically.

3.5. GATE INSTALLATION

A. Install gates according to manufacturer's written instructions, level, plumb, and secure for full opening without interference. Attach fabric as for fencing. Attach hardware using tamper- resistant or concealed means. Install ground-set items in concrete for anchorage. Adjust hardware for smooth operation and lubricate where necessary.

3.6. ADJUSTING

A. Gate: Adjust gate to operate smoothly, easily, and quietly, free of binding, warp, excessive deflection, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range. Confirm that latches and locks engage accurately and securely without forcing or binding.

END OF SECTION 32 31 13