

## **ADDENDUM NO. 3**

### **TRACK & FIELD IMPROVEMENTS – INC 1**

LITTLE JOB #612-12353-01

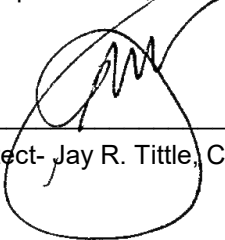
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#### **Adolfo Camarillo High School**

4660 Mission Oaks Blvd.  
Camarillo, CA 93012

November 6, 2019

LITTLE  
1300 Dove Street, Suite 100  
Newport Beach, CA 92660



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Architect- Jay R. Tittle, C- 12955

#### **1. PART 1 - GENERAL**

- 1.1. The following revisions and/or clarifications shall be made to the Bidding Requirements and Contract Documents. Revise and amend the Documents for the above-named project in accordance with this Addendum. The bid shall reflect these addendum changes and each bidder shall make reference in their bid to this addendum.
- 1.2. All Bidding Requirements and Contract Documents shall apply to this addendum as originally indicated in the applicable portions of the contract documents, unless otherwise modified by this addendum.
  - 1.2.1. Addendum No. 1 issued on October 21, 2019.
  - 1.2.2. Addendum No. 2 issued on November 4, 2019

## **2. PART 2 - PROJECT MANUAL**

### **2.1. CHANGES TO PROJECT MANUAL TABLE OF CONTENTS**

#### **2.1.1. Division 11, Equipment**

##### **2.1.1.1. Add Section 11 68 43\_13, Outboard Scoreboard, to the Table of Contents.**

### **2.2. SPECIFICATIONS ISSUED**

#### **2.2.1. Section 11 68 43\_13, Outboard Scoreboard - Add new Section 11 68 43\_13 (attached)**

### **END OF ADDENDUM NO. 3**

#### **Enclosures:**

- I) New Project Manual Documents Issued:
  - a) Section 11 68 43\_13

## **SECTION 11 68 43.13 OUTDOOR SCOREBOARD**

### **PART 1 GENERAL**

#### **1.01 SECTION INCLUDES**

- A. Single-sided LED Football, Soccer, and Track scoreboard.
- B. Scoring console.
- C. Trumpet Horn.
- D. Non-Backlit Identification/Sponsor panels.

#### **1.02 REFERENCE STANDARDS**

- A. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
  - 1. California Electric Code.
- B. UL 1433 - UL Standard for Safety Control Centers for Changing Message Type Electric Signs; Current Edition.

#### **1.03 ADMINISTRATIVE REQUIREMENTS**

- A. Coordination: Coordinate the installation of scoreboard with size, location and installation of service utilities.
- B. Preinstallation Meeting: Conduct a preinstallation meeting one week prior to the start of the work of this section; require attendance by all affected installers.
- C. Sequencing: Ensure that utility connections are achieved in an orderly and expeditious manner.

#### **1.04 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide manufacturer's product literature, component dimensions, describe components within assembly, anchorage and fasteners, the scoreboards and accessories proposed for installation.
- C. Shop Drawings: Indicate plan views, elevations, sections, panel dimensions, details, and attachments to other work.
  - 1. Show typical details of assembly, erection and anchorage.
  - 2. Include wiring diagrams for power, control, and signal systems.
  - 3. Show complete layout and location of equipment, including required clearances and coordination with adjacent construction.
- D. Certificate: Certify that products of this section meet or exceed specified requirements.
- E. Manufacturer's Instructions: Indicate installation and operating instructions.
- F. Operation Data: Operating instructions.
- G. Maintenance Data: Maintenance manuals.

- H. Warranty Documentation: Submit manufacturer warranty and ensure that forms have been completed in District's name and registered with manufacturer.
- I. Maintenance Materials: Furnish the following for District's use in maintenance of project:
  - 1. See Section 01 60 00 - Product Requirements, for additional provisions.

#### **1.05 QUALITY ASSURANCE**

- A. For outdoor use.
- B. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience.
  - 1. Single Source Responsibility: Provide products by the same manufacturer.
- C. Installer Qualifications: Company specializing in performing work of the type specified and with minimum three years of documented experience.
- D. Copies of Documents at Project Site: Maintain at the project site a copy of each referenced document that prescribes execution requirements.

#### **1.06 PROJECT CONDITIONS**

- A. Field measurements: Verify position and elevation of structure and its layout for scoreboard equipment. Verify dimensions by field measurements.
- B. Verify mounting structure is capable of supporting the scoreboard's weight and windload in addition to the auxiliary equipment.
- C. Installation may proceed within acceptable weather conditions.

#### **1.07 DELIVERY, STORAGE, AND HANDLING**

- A. Product delivered on site.
- B. Scoreboard and equipment to be housed in a clean, dry environment.

#### **1.08 WARRANTY**

- A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.
- B. Correct defective Work within a one year period after Date of Substantial Completion.
- C. Provide five year manufacturer warranty for no cost parts exchange including standard shipping on electronics parts and wireless radios due to manufacturing defects.
- D. Provide toll-free service coordination.
- E. Provide technical phone support during Daktronics business hours.
- F. Warranty/Service Plan:
  - 1. Provide 5 years of parts coverage, to include wireless radios.
  - 2. Provide toll-free service coordination.
  - 3. Provide technical phone support during manufacturer's business hours.

## **PART 2 - PRODUCTS**

### **2.01 MANUFACTURER**

- A. Basis of Design: Daktronics, Inc., 201 Daktronics Drive, P.O. Box 5128, Brookings, South Dakota 57006-5128: [www.daktronics.com](http://www.daktronics.com), or approved equal.
  - 1. Local Representative: Bob Fechner, 714.865.6040; [Bob.Fechner@daktronics.com](mailto:Bob.Fechner@daktronics.com).
- B. Other Acceptable Manufacturers:
  - 1. Nevco Scoreboard Company: [www.nevco.com](http://www.nevco.com).
  - 2. Substitutions: See Section 01 60 00 - Product Requirements.

### **2.02 SCOREBOARD**

- A. Basis of Design: Daktronics, Inc.; Product FB-2023: [www.daktronics.com](http://www.daktronics.com).
  - 1. Single-sided football/track scoreboard displays period or race time to 99:59.99.
  - 2. HOME and GUEST scores to 99.
  - 3. DOWN/TO GO/BALL ON/QTR (quarter) information, and TIME OUTS LEFT to nine.
  - 4. Arrows indicate possession.
  - 5. Scoreboard comes standard with track captions on changeable panels.
  - 6. During the last minute of the period, the clock displays time to 1/10 of a second.
- B. DSA Pre-Approval:
  - 1. Two Column 25 foot wide display, PC-3, 04-116017.
- C. General information:
  - 1. Dimensions: 8'-0" high, 25'-0" (7650 mm) wide, 8 inches (203 mm) deep.
  - 2. Base weight: 820 lb (372 kg) with vinyl captions – options may increase weight.
  - 3. Base Power Requirement: 330 W (red/amber digits) with vinyl captions – options may increase wattage
  - 4. ETL listed to 1 and UL 1433.
  - 5. California Electric Code compliant.
  - 6. Color: As selected by Architect from manufacturer's custom line.
- D. Construction
  - 1. Alcoa aluminum alloy 5052 construction.
  - 2. Scoreboard back, face and perimeter: 0.063 inches thick.
  - 3. Scoreboard top and bottom: 0.125 inches thick.
- E. Digits & Indicators:
  - 1. LED Color: Mixed Digit LED's.
  - 2. Clock digits: 30 inches (762 mm) high.
  - 3. HOME, GUEST, DOWN, TO GO, BALL ON and QTR digits: 24 inches (610 mm) high.
  - 4. T.O.L. digits: 18 inches (457 mm) high.
  - 5. Seven bar segments per digit.

6. PanaView® LED digit technology.
  7. All digits and indicators sealed front and back with weather-tight silicone gel.
- F. Captions:
1. Vinyl applied directly to scoreboard face.
    - a. Track captions are on changeable panels.
  2. HOME and GUEST captions: 15 inches (381 mm) high.
  3. DOWN, TO GO, BALL ON, QTR and T.O.L. captions: 12 inches (305 mm) high.
  4. TIME OUTS LEFT captions: 10 inches (254 mm) high.
  5. Color: As selected by Architect from manufacturer's custom line.
- G. Optional Equipment to be Supplied:
1. Soccer captions on changeable panels.
  2. 2.4 GHz spread spectrum radio receiver.
  3. Trumpet Horn: 120v AC.
  4. LED colon & decimal.
  5. Individual digit protective screens.
  6. Standalone Time of Day (scoreboard acts as a clock when control console is unplugged/off).
  7. Semi-automatic track timing with the OmniSport® console.

### **2.03 NON-BACKLIT IDENTIFICATION/SPONSOR PANELS**

- A. General Information:
1. Provide two (2) Non-Backlit Ad & ID panels on top and one on bottom.
  2. Top Panel Dimensions: Nominal 7'-0" high x 4'-6" wide, each.
  3. Bottom Panel Dimensions: Nominal 2'-0" high x 25'-0" wide, each.
  4. Color: As selected by Architect from manufacturer's custom line.
- B. Construction:
1. Signage Cabinetry and Metal Parts: Lightweight aluminum.
  2. Sheet Metal Parts: 0.050 inch aluminum with an alloy content of 5052-H34 minimum.
  3. Painted Surfaces: Primed and painted using automotive industrial finish or better.
- C. Sign Decoration:
1. Construct using self-adhesive vinyl materials with a minimum of a 3 year outdoor warranty.
  2. Digitally Produced Graphics: 3M Scotchprint or equivalent.

### **2.04 LED VIDEO DISPLAY**

- A. Basis of Design: Daktronics, Inc.; DVXMC 19.8 mm Outdoor Video Display: [www.daktronics.com](http://www.daktronics.com), or approved equal.
- B. Dimensions:

1. Cabinet Size: 6.75 ft. by 15.92 ft.
2. Active Area: 6.25 ft. by 15.67 ft.
3. Matrix Size: 96 rows by 240 columns
- C. Maximum Power: 3854 watts
- D. Features:
  1. LINE/COLUMN SPACING: 0.78" (19.8 mm)
  2. PIXEL CONFIGURATION: 3 through-hole LEDs per pixel (1 red, 1 green, 1 blue)
  3. DISPLAY POWER: Varies by display size
  4. DISPLAY WEIGHT: Varies by display size
  5. COLOR CAPACITY: 281 trillion colors
  6. DIMMING: 256 levels
  7. LED LIFETIME: 100,000 hours
  8. CALIBRATED INTENSITY: 11,000 nits (cd/m2)
  9. VIEWING ANGLE: 140° horizontal, 70° vertical
  10. SERVICE ACCESS: Front
  11. CABINET COLOR: Semi-gloss black
  12. TEMPERATURE RATING: -40° to 120° Fahrenheit (-40° to 50° Celsius)
  13. COMMUNICATION: Fiber Optic (50/125 µm multi-mode)
  14. CONTROL SOFTWARE: Show Control System, SCS-4000 (see DD1757723)
  15. GRAPHIC CAPABILITY: Audio-enabled video clips, animations,
- E. Control System:
  1. Location: in a control room is to be climate controlled by the District. See Drawings for location.
    - a. Normal operating temperature should be between 40° to 90° Fahrenheit (4° to 32° Celsius).
    - b. Normal operating humidity should be less than 80% non-condensing.
    - c. Storage temperature should be between -10° to 105° Fahrenheit (-23° to 41° Celsius).
    - d. Storage humidity should be less than 95% non-condensing.
    - e. Keep computers and monitors out of direct sunlight during storage.
    - f. Allow control equipment taken out of storage to return to operating temperature range prior to turning it on (24 hours recommended).
  2. Controller:
    - a. Storage: 480 GB Solid State Drive.
    - b. Ports: USB 2.0 @ 6 ; USB 3.0 @ 4.
    - c. Audio Output: Enabled (3-pin XLR balanced).
    - d. Dimensions: 15 inches H x 10.65 inches W x 14 inches D; 8RU.
    - e. Weight: 26 lbs (12 kg).
    - f. Power: 120 VAC, 126 Watts (2 wall outlets required).

3. Laptop:
  - a. Operating System: Windows® 10 Pro 64.
  - b. Processor: Intel® Core™ i5.
  - c. Memory Support: 8 GB DDR4-2133 SDRAM.
  - d. Hard Drive: 500 GB 7200 RPM.
  - e. Form Factor: HP ProBook 650 G2 with 15.6" (584 mm) display.

## 2.05 SCORING CONSOLE

- A. Basis of Design: Daktronics, Inc.; All Sport® 5000 controller console with OmniSport 2000 controller: [www.daktronics.com](http://www.daktronics.com), or approved equal.
- B. Capable of scoring multiple sports through the use of keyboard inserts.
- C. Capable of controlling other connected All Sport controlled displays.
- D. Maximum Power Requirement: 6 watts.
- E. Recall after Power Outage: Clock, score, and period.
- F. Runs Time of Day and Segment Timer modes.
- G. Console includes:
  1. Aluminum enclosure to house electronics.
  2. Keyboard: Sealed membrane water-resistant.
  3. Display: 32 Character LCD to verify entries and recall information.
  4. Power cord to plug into a standard grounded 120v AC outlet.
  5. Wireless Control: 2.4 GHz spread spectrum radio system with frequency hopping technology and 64 non-interfering channels; system includes a transmitter installed inside the console and a receiver installed inside the scoreboard(s).
  6. A practice timer mode:
    - a. Can sound the horn at the end of each segment.
    - b. Has 99 programmable segments.
    - c. Displays the segment number and segment length.
    - d. Has a programmable interval time.
- H. Optional Equipment to be Supplied:
  1. Hard carrying case.
  2. 2.4 GHz spread spectrum radio transmitter.

## 2.06 TRUMPET HORN KIT

- A. Dimensions: 20.25 inches long x 7.5 inches maximum diameter
- B. Sound Output: 100 dB @ 1 meter
- C. Power: 120v AC, 0.75 amps, 60Hz
- D. Weatherproof.



## **PART 3 - EXECUTION**

### **3.01 EXAMINATION**

- A. Verify that mounting structure is ready to receive scoreboard.
- B. Verify that placement of conduit and junction boxes are as specified and indicated in plans and shop drawings.
- C. Verify concrete has cured adequately according to specifications.
- D. Do not install scoreboard equipment until mounting structure is secure and concrete has cured.

### **3.02 INSTALLATION**

- A. Install in accordance with manufacturer's instructions.
- B. Route all power and control cables to scoreboards and displays in conduit.
  - 1. See Electrical Drawings for power to the scoreboards/displays as well as raceways.
  - 2. Scoreboard control wiring including conduit will be the responsibility of the installing Contractor assigned the scoreboard equipment.
- C. Install scoreboards and exterior displays to beams in location detailed and in accordance with manufacturer's instructions.
- D. Verify unit is plumb and level.

### **3.03 INSTALLATION - CONTROL CENTER**

- A. Provide boxes, cover plates and jacks in locations per plans.
- B. Test connect control unit to all jacks and check for proper operation of control unit, scoreboard and all features.
- C. Leave control unit in carrying case and other loose accessories with Owner Representative.
- D. Verify earth ground does not exceed 15 ohms.

**END OF SECTION**

