



**Town of East Hartford**

**ADDENDUM N<sup>o</sup>. 03**

**East Hartford High School Tennis Court  
Renovation  
Bid No. 16-13**

**Issued February 3, 2016**

*The following summarizes revisions to the Bid Documents included in Addendum N<sup>o</sup>. 03 for the East Hartford High School Tennis Court Renovation (Bid No. 16-13):*

- In order to accommodate the spring high school tennis program, the Contractor may not commence work at the site prior to Monday, June 6, 2016. This change was added to the second Bid Proposal Sheet.
- Addendum No. 2 clarified the specification for the new tennis court net posts for the western four (4) courts. The revised technical specification for *Tennis Equipment and Surface Treatment* now includes that specification for the tennis court net posts.
- Tennis court net posts for the western four (4) courts are ONLY required at the doubles location. The detail for *Line Striping Layout*, shown on Drawing DN-1, incorrectly shows net posts for both single and doubles net types. The Town will only be using doubles nets with singles sticks. The Town will provide both the doubles nets and the singles sticks. A net post sleeve is not required at the singles net location. Markings shall include a location mark for the singles sticks on all courts.
- The specification for *Tennis Equipment and Surface Treatment* now includes cushion layers (Plexicushion base coat and Plexicushion). The pavement details on Drawing DN-02 (*Asphalt Court Pavement System and Pavement Patch Repair Detail*) always indicated that the surface was cushioned. The specification now matches the drawing details.
- In addition, the number of layers of each tennis court surfacing product is now specifically listed in the revised section *Tennis Equipment and Surface Treatment*. The intent is to provide the tennis court surface system “Plexcushion Tournament” or approved equal.

*The following documents & drawings are attached and included in Addendum N<sup>o</sup>. 03:*

- Revised Bid Proposal Sheet (specifically, Item E).
- Revised Section 14.01 – *Tennis Equipment and Surface Treatment* from the Technical Specifications.

### **Revised Bid Documents**

- Replace Page 17 of 242 of the Contract Documents – 2<sup>nd</sup> page of the Bid Proposal Sheets with the attached page.
- Replace the six (6) pages of Section 14.01 *Tennis Equipment and Surface Treatment* (Pages 157 to 162 of 242) with the seven (7) attached pages 157 to 162.1 of 242.

**End of Addendum N<sup>o</sup>. 03**

- E. The Bidder hereby agrees to commence Work under this Contract within ten (10) days of written Notice to Proceed from the Town **provided that** work at the site may not commence prior to Monday, June 6, 2016. The Work of all base bid items must be completed on or before Friday, October 7, 2016. The Bidder further agrees to pay as liquidated damages, the sum of FIVE HUNDRED DOLLARS (\$500.00) for each consecutive calendar day beyond the date of completion. Liquidated damages are not intended as a penalty but rather shall be construed as a best estimate of damages which the Town will suffer due to Bidder's refusal, failure or neglect to perform pursuant to his Bid and Contract Documents.
- F. The Bid security in the sum of: 5% OF TOTAL BID is to become the property of the Town in the event the above forms are not executed within the time set forth above, as liquidated damages, and not as a penalty for the delay and additional expense to the Town caused thereby.

## SECTION 14.01 - TENNIS EQUIPMENT AND SURFACE TREATMENT

### PART 1 - GENERAL

#### 1.1 DESCRIPTION

##### A. SCOPE OF WORK

This Section includes the following: Furnish all labor, materials, equipment and services for completion of the following:

1. Tennis Court Surface Treatment
2. Tennis Equipment
3. Crack Repair

#### 1.2 QUALITY ASSURANCE

A. **Installer Qualifications:** Engage experienced Installer(s) who has/have successfully completed installations of site furnishings similar in material, design and extent to that indicated for Project.

1. Contractor to provide the Engineer with a list of and the location of the five-warrantied systems for review before the start of construction on the entire project.
2. The installation of the bituminous concrete paving base shall be completed on a laser graded/compacted base as well as the bituminous concrete paving as per Standard Specifications for Roads, Bridges and Incidental Construction Form 816.

B. **Layout and Placement:** Prior to installation of furnishings, locate in field and review with Engineer/Landscape Engineer for siting, alignment and grade relationships prior to placement. Subbase grading and compactions of pavement bases shall be laser graded and verified by a Connecticut Registered Professional Surveyor. Final bituminous concrete paving shall be installed and laser set grades shall also be certified by a Connecticut Registered Professional Surveyor as meeting the grades required before the start of the installation of fencing and the synthetic court surfaces.

C. **Warranty:** Installer shall provide, protect and install furnishings in a manner, which does not void any manufacturer's warranties for construction or safety.

1. The finished tennis surface shall have a written warranty covering the labor and materials from the contractor and the manufacturer respectively. The surfacing contractor shall provide the Engineer with an "authorized applicators certificate" from the manufacturer before the start of construction on the entire project.

- D. All manufacturers shall have a minimum of 5 years experience in producing site amenities.
- E. Manufacturers shall submit a list of at least 5 sites where their product is located.
- F. All metals and woods specified shall conform to standards defined by societies and associations normally associated with technical requirements of materials and their performance standards.
- G. All products shall be free of cracks, and any other defect at the time of delivery. All units are to be placed in a storage area, protected from damage prior to and during transit to the Owner's or Contractor's site within the limits of the project area until which time the Contractor is ready to install the units.
- H. In the event any of the site improvements or any component are deemed defective and unacceptable, the product(s) shall be replaced at no additional cost to the Owner.
- I. The Contractor shall be, at a minimum, be responsible for all quality assurance/quality control of horizontal and vertical alignments (direction and grading) and provide all necessary requirements.
- J. The Plexipave/Plexicushion System material requirements are the standard specification to which other surfaces must conform. Any products to be approved as an equal to the specified product must conform to the materials and application requirements of this specification. Any binders, to be considered equal, must have written confirmation by the manufacturer that they have been produced specifically for use in court surfacing construction. Systems to be considered equivalent must be accompanied by stamped certification from a licensed testing laboratory that the substitute products have passed the appropriate tests to determine equality. The results of that testing shall be submitted to the Engineer for review prior to the start of construction.

### 1.3 SUBMITTALS

- A. Provide product information for the following products:
  - 1. Tennis Court Surface Treatment
  - 2. Armor Crack Repair System

### 1.4 DELIVERY, STORAGE AND HANDLING

- A. Protect furnishings against soilage and damage during storage and construction by use of padding or barriers as required to maintain furnishings in undamaged condition.

- B. Review finishes and structures of furnishings prior to, during and after installation for blemishes, defects or inconsistencies that may be subject to rejection by the Landscape Engineer. Remove from the site unsatisfactory furnishings and replace at no additional cost to the Owner.

## PART 2 - PRODUCTS

### 2.1 TENNIS COURT SURFACE

- A. Plexipave Court Patch Binder - shall comply with Specification 10.14 of California Products Corporation or approved equal.
- B. Acrylic Resurfacer - shall comply with Specification 10.8 of California Products Corporation or approved equal.
- C. Plexicushion Base Coat – shall comply with Specification 10.9 of California Products Corporation or approved equal.
- D. Plexicusion – shall comply with Specification 10.3 of California Products Corporation or approved equal.
- E. Fortified Plexipave - shall comply with Specification 10.12 of California Products Corporation or approved equal.
- F. Plexichrome - shall comply to Specification 10.1 of California Products Corporation or approved equal.
- G. Pexicolor Line Paint - shall comply with Specification 10.4 of California Products Corporation or approved equal.
- H. Water - water used in all mixtures shall be fresh and potable.
- I. Finish color of the Plexipave System or equal shall be a stock color as selected by the Owner.
- J. Tennis court crack seal system shall be ARMOR Crack by ARMOR Crack Repair System, Farmingdale, NJ ([www.armorcrackrepari.com](http://www.armorcrackrepari.com)) or approved equal.

### 2.2 CENTER STRAP ANCHORS

- A. Provide standard aluminum center strap anchors with stainless steel pins.
- B. Owner to provide center straps.

## 2.3 TENNIS NETS

- A. Owner to provide tennis nets (doubles size) and singles sticks.

## 2.4 WIND SCREENS

- A. Owner to provide wind screens.

## 2.5 TENNIS COURT NET POSTS

- A. Tennis court net posts shall be Douglas Premier XS Black with Stainless Steel Gears (Model 63032SS) or equal with the corresponding 24" steel ground sleeve.

# PART 3 - EXECUTION

## 3.1 GENERAL

- A. Execution and installation shall meet or exceed the minimum requirements as depicted on the Contract Documents.
- B. Meet or exceed all requirements as outlined by the manufacturer.
- C. The Contractor shall be, at a minimum, responsible for all quality assurance/quality control of horizontal and vertical alignments (direction and grading) and provide all necessary requirements.

## 3.2 TENNIS COURT SURFACE

- A. Tennis court surface shall be the "Plexicushion Tournament" system by Plexipave (a division of California Products), or equivalent:
  - 1. Following bituminous surface preparation, apply one (1) coat of Acrylic Resurfacer
  - 2. Apply two (2) coats of Plexicushion Basecoat
  - 3. Apply three (3) coats of Plexicushion
  - 4. Apply three (3) coats of Fortified Plexipave color surfacing
  - 5. Apply Plexicolor Line Paint
- B. Bituminous Surface Preparation
  - 1. New asphalt surfaces shall be allowed to cure a minimum of 14 days before application of the "Plexicushion Tournament" system.

2. The surface to be coated shall be sound, smooth of uniform texture, and free from dust, dirt, grease, or oils and any other deleterious materials. Prior to the application of surfacing materials, the entire surface should be flooded and checked for minor depressions or irregularities. Any puddle area covering a nickel shall be marked and repaired with Court Patch Binder after all cracks are treated with Armor Crack or approved equal system, using the following mix:
  - a. 100 lbs. 60 - 80 mesh silica sand (dry).
  - b. 3 gallons Plexipave Court Patch Binder.
  - c. 1 to 2 gallons Portland Cement (dry), (depending on humidity and temperature).
  
3. Tack coat consisting of 1 part Court Patch Binder and 2 parts water shall be applied to the patch areas and allowed to dry thoroughly prior to patching. See California Products Specifications 10.14 and 10.21.
  - a. Repair cracks with Armor Crack or equivalent repair system.
  - b. After patching and crack repair, the surface shall not vary more than 1/8" inch in ten feet measured in any direction.

C. Surface Course Preparation

1. In order to provide a summary dense underlayment for the final Plexicushion system, contractor shall include one application of California Products Acrylic Resurfacer applied to the surface to obtain a coverage of 15 - 20 sq. yds. per gallon, (.07 - .05 gallons per square yard). No application shall be covered by a succeeding application until thoroughly cured. Dilution with water and sand is required utilizing the following mix:
 

|                            |                   |
|----------------------------|-------------------|
| a. Acrylic Resurfacer      | 55 gallons        |
| b. Water (clean & potable) | 20 - 40 gallons   |
| c. Sand (60 - 80 Mesh)     | 600 - 900 lbs.    |
| d. Liquid Yield            | 112 - 138 Gallons |

D. Plexicushion Base Coat Application

1. After the Acrylic Resurfacer application has thoroughly dried, Plexicushion Base Coat shall be applied at an average rate of 0.22 gallons per square yard per coat.
2. Plexicushion Base Coat shall be applied with a 24" or 36" 50-durometer rubber squeegee. Plexicushion Base Coat must be thoroughly mixed prior to application. Plexicushion Base Coat may be diluted 4 parts Base Coat to 1 part water.

3. Extreme care should be taken that ridges are not allowed to form between passes of the squeegee. Any ridges that do form must be rubbed out prior to the application of the Plexicushion.

E. Plexicushion Application

1. Plexicushion shall be applied (after the Plexicushion Base Coat application has thoroughly dried) with a 24" or 36" 50-durometer rubber squeegee. Plexicushion may be diluted with water at a rate of 4 parts Plexicushion to 1 part water.
2. Apply Plexicushion at a rate of .10 to .11 gallons per square yard per coat. For the first application over Plexicushion Base Coat, Plexicushion shall be applied at a rate of .16 gallons per square yard. Subsequent application shall be applied at a rate of .10 to .11 gallons per square yard per coat.
3. Extreme care should be taken that ridges are not allowed to form between passes of the squeegee. Any ridges that do form must be rubbed out prior to the application of the Plexipave Color Finish System (Fortified Plexipave).
4. Do not allow Plexicushion to drop on adjacent areas.

F. Fortified Plexipave

1. Allow the last coat of Plexicushion to thoroughly dry for at least 6 hours in good weather conditions before applying Fortified Plexipave.
2. Fortified Plexipave shall be applied by rubber bladed squeegee on the clean dry surface to obtain a total quantity of not less than .15 nor more than .23 gallons per sq. yd. of area, based on material prior to any dilution. No application shall be covered by a succeeding application until thoroughly cured.
3. Fortified Plexipave can be job mixed as follows:
  - a. Plexipave Color Base 30 gallons
  - b. Plexichrome 20 gallons
  - c. Water (clean & potable) 20 gallons
4. The diluted material shall be homogeneous. Segregation before or during application shall not be permitted.
5. The finished surface shall have a uniform appearance and be free from ridges and tool marks.

G. Plexicolor Line Paint

1. Four hours minimum after completion of the color resurfacing, playing lines of the width shown on the Drawings shall be accurately located, marked, and painted with white Plexicolor Line Paint as specified by the U.S. Tennis Association.

H. Limitations

1. No parts of the construction involving the Plexipave System shall be conducted during rainfall or when rainfall is imminent. The air temperature must be at least 50 degrees F and rising. Do not apply system when surface temperature is above 140 degrees F.

3.3 CLEAN UP AND MAINTENANCE

- A. Upon completion of all work, the Contractor shall remove all containers, surplus materials, and debris; the site will be left in a clean orderly manner acceptable to the Engineer and Owner.
- B. The Contractor shall provide the Owner written maintenance requirements and review those requirements with the Owner at the completion of the project.