

## SECTION 02542



### NOVA'PROADVANTAGE XP TENNIS SURFACE RESURFACING OVER EXISTING FAST DRY/ CLAY

#### PART I - GENERAL

##### 1.01 SUMMARY

A. This section includes, and is not limited to:

1. Construction of a Nova'ProAdvantage XP monolithic pavement "CushionCourt" tennis surface consisting of a grass-like network of tufted, polyethylene, ultraviolet resistant fibers interlocked with select aggregates and eco-friendly cushioned backing.
2. Preparation of existing clay court base to receive new surfacing.
3. Tennis court net posts, foundations and anchor straps.

##### 1.02 QUALITY ASSURANCE

- A. The Nova'ProAdvantage XP tennis surface shall be constructed by an approved installer certified by NGI Sports (NGI). The Nova'ProAdvantage XP system shall meet manufacturing specifications set up for same.
- B. All material shall be clearly marked.
- C. Materials shall not be installed when rain is imminent or temperature is below 40° F.
  1. The installation of the Nova'ProAdvantage XP system shall be completed in dry weather.
  2. Neither surface nor aggregates may be moist or wet.
  3. Fabrication should be done in dry weather with the temperature above 40° F and rising.

##### 1.03 WARRANTY

- A. Material shall have a minimum limited warranty supplied by the manufacturer.
- B. Contractor to provide {Owner} {Architect} {Landscape Architect} {Engineer}, upon completion of warranty application, written warranty at completion of project in accordance with Section {01700} {01740} of the project manual.

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## PART 2 - PRODUCTS

### 2.01 SURFACING SYSTEM FOR TENNIS

- A. The Nova'ProAdvantage XP turf system shall consist of artificial fibers that shall meet the following minimum specifications:
- |                          |                          |
|--------------------------|--------------------------|
| 1. Tufting Construction  | ASTM D418                |
| 2. Breaking Elongation   | 124%, ASTM D1682         |
| 3. Breaking Load         | 181 lbs., ASTM D1682     |
| 4. Grab Tear Strength    | 100 lbs., ASTM D1682     |
| 5. Seam Tensile Strength | 55lbs./inch, minimum     |
| 6. Melting Point         | 334.4°F, ASTM D789       |
| 7. Flame Test            | Pass, ASTM E108          |
| 8. Fiber System          | Fibrillated Polyethylene |
| 9. Pile Height           | .625 inches              |
| 10. Primary Backing      | Dual Polyester           |
| 11. Back Coating         | Natural Urethane         |
| 12. Secondary Coating    | Urethane Foam            |
| 13. Line System          | Sportline                |
| 14. Infill               | 3.5 lbs psft.            |
- B. The color shall be Irish Green or French Red and all fibers in each roll applied to the tennis court shall be from the same dye lot.
- C. White lines are tufted in place at the manufacturing plant (Sportline System). Refer to product installation guideline to determine application.
- D. Turf surfacing materials can be perforated during production to assist in court drainage and in the prevention of moss/algae growth on surface.
- E. Granular Fill (XP-TeXFill) Material Options.
- Option 1 - Specially selected light weight, graded and shaped granules in colors of Rubico Green or French Red shall be filtered into the fibers at the rate of 3.5 lbs psft as required by the manufacturer's detailed specifications.
  - Option 2 – Special Blend Topdressing. A base layer of selected grade and shape sub-angular sand is filtered into the fibers at a rate of 3.25 lbs psft. This base layer is covered with a special blend of Rubico Green or French Red topdressing at a rate of .4 lbs psft.
  - Option 3 – Specially selected grade and shape sub-angular sand granules shall be filtered into the fibers at a rate of 3.5 lbs psft as required by the manufacturer's detailed specifications.

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- F. Seams: Weather resistant polyester tape and one component, moisture cured urethane adhesive as recommended by system manufacturer.

## 2.02 TENNIS COURT ACCESSORY MATERIALS

- A. Net Posts and Sleeves Equipment: Tennis posts shall be made out of steel, metal or wood of sufficient strength to properly support the net at a height of 42". Posts and sleeves shall be set where indicated on drawings. Posts shall be set plumb and true so as to support the net at a height of 42" above the court surface at the net posts.
- B. Center Strap Anchor: A center strap anchor shall be positioned as shown on the drawings and set in concrete footings measuring 12" X 12" X 12".
- C. Tennis Nets: Shall be polyethylene 3 mm braided body, 42' long and 3.25' wide, polyester top binding attached with four lock stitched rows. Sides shall be braced with dowels for a neat, taut appearance. Nets shall be installed, upon completion, to posts and cables.

## PART 3 - EXECUTION

### BASE PREPARATION

#### 3.01 EXISTING FAST DRY / CLAY SURFACE

- A. Existing fast dry / clay surface will need to be corrected with a stone dust overlay inside the fence or patching of low areas with screenings.
- B. Inspect and shoot grades of existing asphalt aggregate base to determine planarity and slope. This will be required to estimate amount and depth of stone dust screenings which are to be installed on surface to achieve a tolerance of 1/8" in 10' when measured in any direction and a minimum overall slope of .14 to .24%.
- C. As required, add stone dust screening and compact by mechanical laser grading, rolling and lightly scarifying a sound surface to within a finished tolerance. It is a preferred method of application to laser grade the surface to insure proper surface tolerance. The screening shall be spread and thoroughly compacted and finished to a tight, smooth and compacted finish.
- D. Finished surface of the leveled and prepared screening course may be mixed with a stabilizer and shall not vary from the specified grade more than 1/8" in 10' when measured in any direction and shall have a minimum slope of .24% and a maximum of 1%.

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### 3.02 PERIMETER EDGING FOR CRUSHED ROCK OVERLAY

A. A floating type curb of standard brick or concrete block set in cement mortar as detailed in the drawings shall be installed around the perimeter of the court area if necessary to secure the stone overlay. Existing barrier may be used and modified as necessary. Sections may be left open to allow trucks and other equipment to enter and leave the court area until other work specified herein has been completed.

B. The finished curb elevation shall be exactly 1/2" below the finished grade level and the court's surface course shall be tapered from 6" (six inches) out to meet it. Provision shall be made for water to drain under or over the curb on the low side of the court.

### 3.03 INSTALLATION OF TENNIS COURT ACCESSORIES

- A. Post foundations shall be not less than 24" in diameter at the top, not less than 30" in diameter at the bottom, and not less than 36" in depth.
- B. Foundations shall be situated so as to provide a clear distance between posts of 33' on single courts and 42' on double courts.
- C. The metal anchor strap, located at the center of the net, shall be set in a concrete footing measuring 12" in diameter and 12" deep.
- D. Square footings and foundations are not acceptable.
- E. Tennis nets shall be installed, upon completion, to posts and cables for a neat, taut appearance.

### 3.04 NOVA'PROADVANTAGE XP SURFACING SYSTEM

- A. Confirm that all center strap anchors and net post sleeves are in place prior to surface installation.
- B. The surface course shall be installed according to manufacturer's specifications.
- C. All surface course materials are to be installed after the surface has been inspected and approved by the {Owner} {Architect} {Landscape Architect} {Engineer}.
- D. The Nova'ProAdvantage XP cushioned base sheet shall be placed over subbase in accordance with manufacturer's instructions.
- E. Sections of the cushioned base sheet layer are to be laid out according to manufacturer's instructions for sportline system.
- F. Lines are to be factory tufted in place (Sportline System). Refer to system installation guidelines from system manufacturer for installation.

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- G. All joints shall be attached with Nova'XP-Bond, a special combination of a one-component, moisture cured urethane adhesive and a weather resistant polyester tape. Heat seaming methods shall not be allowed. All seams and lines to be cut shall be cut without damaging tops of the fibers.
- H. Base Sheet Infill: Using a special mechanical device to filter the infill into the fabric, the Nova'XP-TexFill material infill shall be filtered into the surface mat in several light layers and shall be brushed in to allow for compaction and a level finish.
- I. Once leveled and filled, surface is to be mechanically treated to achieve proper compaction. Once process is completed, court shall be top dressed and tested for ball bounce. Court(s) will not require an extended break-in period if above treatment is completed properly.
- J. CAUTION: Do not allow petroleum products to be spilled on the Nova'ProAdvantage-XP surface.

#### 4.01 CLEAN UP

- A. Upon completion of the work, the contractor shall remove all containers, surplus materials and debris and have the site in a clean and orderly condition acceptable to the {Owner} {Architect} {Landscape Architect} {Engineer}.
- B. Provide {Owner} {Architect} {Landscape Architect} {Engineer} with Maintenance Manual upon completion of project in accordance with Section {01700}{01730} of the Project Manual.

**End of Section**  
(revised 01.31.07)

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