PART 1 – General

1.01 **Work Included**

This work includes furnishing and installing a synthetic all-weather running track surface.

1.02 **Description of System and General Conditions**

Synthetic track shall be defined as a 13mm thick, permeable track system, with a paved-in-place rubber granule and polyurethane binder base layer.

The Urethane track surface is designed for use as a durable, resilient surface which may be placed over asphalt and concrete running tracks and all field events. It may also be used to resurface existing all weather tracks, including rubberized asphalt providing the existing surface has good structural integrity and planarity.

1.03 **Codes and Standards**

A. Codes and Standards follow the current guidelines set forth by the National Federation of State High school Association (NFHS), the National Collegiate Athletic Association (NCAA) and the International Association of Athletics Federation (IAAF). The NFHS rules shall be enforced where differences between the three associations are noted.

1.04 **Contractors Pre-Qualification Requirements**

A. Contractor must have been in business for a minimum of (5) years, must have experience with similar projects, and must provide owner with list of at least (5) similar jobs completed within the last 5 years.

B. Contractor must be a member in good standing with the “American Sports Builders Association” (United States Tennis Court and Track Builders Association). This is to ensure that the contractor has met the requirements set forth to be able to perform this specialty work.

C. Contractor should be licensed in the state of which the work is to be performed and entitled to practice the following classifications: “Tennis courts and running track facilities”.
1.05 **Contractors Responsibility / Submittals**

A. Furnishing all labor, materials, and equipment to fully execute job.
B. Furnish and maintain temporary flagging and barricades as required to protect employees and public at all times. This includes daily clean-up of trash and debris.
C. Submit manufacturers product data sheets including installation guidelines and maintenance instructions.
D. The Synthetic surfacing material manufacturer shall submit a letter stating that the surfacing contractor is qualified to install its synthetic surface system.
E. Submit (3) representative track samples in the color of the surfacing to be installed.
F. Submit MSDS sheets and Material Data sheets on all products being installed.
G. Submit documentation that verifies that the synthetic surfacing material does not contain any toxic or hazardous substances, which exceeds limits set forth by the EPA.

1.06 **Insurance Requirements**

**A) Commercial General Liability**
- General Aggregate $2,000,000
- Personal Injury $1,000,000 per occurrence
- Each occurrence $1,000,000

**B) Commercial Business Automobile Liability**
- Combined Single Limit of $500,000 per occurrence

**C) Workers’ Compensation**
- Bodily Injury by Accident $1,000,000 per accident
- Bodily Injury by Disease $1,000,000 per accident

**D) Commercial Liability Umbrella**
- Liability $1,000,000.00

1.07 **Warranty**

Provide a (5) year warranty against faulty workmanship and materials for the synthetic surface. Warranty must state that materials applied conform to the Manufacturers specifications and that the material will not separate from the asphalt or concrete base, blister, foam, bubble, fade, crack, or excessively wear during the life of the warranty. The warranty period shall commence at final completion of the surface.
PART 2-PRODUCTS AND MATERIALS

2.01 Materials

**Urethane primer** – All urethane primer shall be (CONIPUR 322 for asphalt) or (CONIPUR 74 for concrete).

**Urethane binder** – All Polyurethane binder shall be CONIPUR -322 approved for running track applications. Binder shall be a single component polyurethane, moisture curing, and middle viscosity polyurethane binding argent based on MDI/TFI.

**Premium Black Rubber** – All rubber granules shall be of a high quality industrial grade. The rubber granules shall be control gradation (1- 3.5mm) containing minimum dust, less than 4% by weight. Use only premium recycled rubber.

**EPDM Colored Rubber** – All EPDM colored virgin rubber granules should be processed and graded to 0.05-1.5 mm in size unless otherwise specified. The rubber shall contain a minimum of 20 % EPDM and be approved by the resin manufacturer. The specific density shall be 1.60 +/- 0.08 and shore a hardness of 60.

**TPV Colored Rubber** - All TPV colored virgin rubber granules should be processed and graded to 1-4 mm in size unless otherwise specified. All colors can be made to a fully flame retardant grade particularly recommended if specified for indoor use.
PART 3- INSTALLATION PROCEDURE

3.01 Base Requirements

The layout, structural integrity, drainage and planarity are to be checked by owner or architect prior to the commencement of the surfacing work. For general specification for the construction of a track, refer to the American Sports Builders Association (United States Tennis Court and Track Builders Association).

Before application of the surface course, the asphalt base should be tested for planarity using a 10' straight edge. There shall be no deviation from the specified grade in either the stone or the asphalt in excess of 1/8 " in any direction. The lateral slope from outside to inside is to be 1% (a maximum of 2% is allowed for High School standards), and a maximum slope of 0.1% in any running direction. Asphalt base shall be allowed to cure a minimum of (14-21) days prior to commencement of surfacing.

3.02 Preparation

Scheduling – The track shall be installed after the subsurface has been properly prepped and cured. The temperature should be 40 degrees and rising during installation of surface.

Sub-base – The General Contractor or Asphalt Paving contractor shall provide documentation that the paving meets those requirements set forth for asphalt paving. Additionally, the asphalt is to cure for a minimum of 14-21 days prior to synthetic surfacing being applied. Asphalt compaction tests are to be provided showing a compaction of 95% or greater. All concrete shall cure for a minimum of 30 days prior to surfacing.

The asphalt will be checked with a 10 foot straight edge in all directions. Those areas not in conformance will be repaired and / or replaced by the Asphalt Paving Contractor. Flooding the asphalt surface to located irregularities is highly recommended.

Cleaning – The entire subsurface shall be clean, dry and free from any foreign and loose material such as dirt, oil, grease, etc.
3.03 Installation

A. **Primer** - After the asphalt base has cured for a minimum of 21 days (concrete base shall cure a minimum of 28 days), or as required by the owner, a prime coat consisting of Polyurethane Binder mixed with the proper solvent (1:1 w/w) shall be applied with an airless sprayer or paint roller. Only the area to be covered within the working day should be primed to ensure a good bond to the base.

B. **Base Layer** - After priming, the ½ inch black resilient rubber base layer shall be applied. Black EPDM rubber shall be mixed with Polyurethane Binder using an approved mixer. After rubber is mixed with 322 binder, the rubber shall be poured, placed, and leveled by using an approved paver to provide a resilient base layer.

C. **All labor** - shall be full time employees of the surfacing contractor.

3.04 Protection

Surface installation crew shall be responsible for the protection of the track surface only during the application process of the materials. Owner or General Contractor shall be responsible for the protection of the track surface during the curing period, and upon completion of the installation.

PART 4- PHYSICAL PROPERTIES OF FINISHED SURFACE

4.01 Physical Properties

*Thickness* – 13 mm or 1/2 inch

*Color* – Standard colors are Brick Red and Black. Other colors include: Blue and Green. Special colors are offered upon request.
PART 5- MEASUREMENTS AND EVENT MARKINGS

5.01 Line markings

The measurements and markings of lines and events shall be performed in accordance with the requirements of the appropriate governing body (NFSHSA, ASBA, and USATF).

5.02 Specific Slopes

A. Concrete curbs shall be a constant elevation
B. Track oval – Running direction 0.10% - Lateral slope 2% max for NFHS, 1.0% maximum slope for NCAA and IAAF.

FOR SPECIFIC PROJECT SPECIFICATIONS, OR OTHER SPORTS APPLICATIONS, OTHER COLORS OR FOR FURTHER INFORMATION, PLEASE CONTACT:

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