



State of Utah

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ADDENDUM #1

Date: January 26, 2010

To: Contractors

From: Mike Ambre, Project Manager, DFCM

Reference: NCAA Track and Field Facility
Utah Valley University – Orem, Utah
Project No. 09026790

Subject: **Addendum No. 1**

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Note: *This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to Disqualification.*

While we contend that SB220 should only be potentially applicable to a contract issued after the effective date of said bill, this is to clarify that for purposes of this contract, regardless of the execution or effective dates of this contract, the status of Utah Law and remedies available to the State of Utah and DFCM, as it relates to any matter referred to or affected by said SB220, shall be the Utah law in effect at the time of the issuance of this Addendum.

1.1 **SCHEDULE CHANGES** – There are no changes to the project schedule.

1.2 **GENERAL** – Please see Attached

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SECTION 02540

TRACK & FIELD SYNTHETIC SURFACE

PART 1 GENERAL

1.01 WORK INCLUDED

- A. This section covers all labor and materials required to install a first-class track & field surface. The Track & Field Synthetic Surfacing Contractor is responsible for installing all track & field synthetic surfacing materials and line markings (see section 02542) as designated in these specifications.

1.02 CODES AND STANDARDS

- A. Codes and standards follow the current guidelines set forth by the International Association of Athletics Federations (IAAF), the National Collegiate Athletic Association (NCAA) and National Federation of State High School Associations (NFSHSA). Where discrepancies are noted between these various governing bodies, the rules of the NCAA shall be enforced.

1.03 RELATED WORK

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and other Division-1 Specification Sections, apply to this Section. The following Sections are specifically related to this Section:
 - 1. 02539 – Track & Field Surveying
 - 2. 02541 – Track & Field Equipment
 - 3. 02542 – Track & Field Line Markings

1.04 SUBMITTALS

- A. The following information must be submitted by the Track & Field Synthetic Surfacing Contractor prior to installation.
 - 1. Test results, for the product specified in this section, from an IAAF certified laboratory, verifying manufacturer's Track & Field Synthetic Surfacing product meets the IAAF Performance Specifications for Synthetic Surfaces.
 - a. The same components from the tested product must be used in the installed surface. No substitutions of components will be allowed.
 - 2. On-site Project Manager/Superintendent Qualifications:
 - a. The project manager/superintendent will be on-site and oversee all surfacing operations. Substitution of project manager/superintendent shall not be permitted.
 - b. A list of completed facilities, minimum of 5, which are certified to meet NCAA, IAAF or NAIA rules & regulations in the past 5 years utilizing the product specified in these specifications. The Track & Field Synthetic Surfacing Contractor's project manager/supervisor responsible for the completed facilities must supervise this project.

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3. Standard printed specifications of the track & field synthetic surfacing system that is being installed.
4. Installation process and requirements for subbase (stone, asphalt and concrete) and any conditions that may limit the track & field synthetic surface installation or affect quality of installation.
5. Temperature/climatic conditions limiting quality of installation.
6. Standard specification and application for recommended subbase primers, crack filler, patching and leveling material.
7. Three product samples, a minimum of 6" x 6" in size, the same color, texture, thickness, etc. of the same type of surfacing to be installed for this project. This must be a representative sample of the product. This sample must be submitted and approved by the Owner, prior to installation. At completion of the project this sample may be used as a comparison to judge the quality of the installed product. Separate samples are required for each color surface to be installed at the facility.
8. Material safety data sheets on all individual components of the product being installed.
9. Provide a letter stating the Track & Field Synthetic Surfacing Contractor reviewed the asphalt specification and are accepting the specification as correct. Upon completion of the Asphalt paving and prior to installation of the track & field synthetic surface, the Track & Field Synthetic Surfacing Contractor will provide a letter accepting the installed asphalt and stating it is suitable to receive the track & field synthetic surface.

B. The following information shall be submitted after completion of the specified work:

1. Provide an industry standard five (5) year manufacturer's warranty against workmanship and materials on the synthetic surface. The warranty period to begin at final completion or Owner occupancy.
2. Provide a Care and Maintenance manual for the Owner's use in maintaining the synthetic surfacing.

1.05 QUALITY ASSURANCE

- A. The Track & Field Synthetic Surfacing Contractor and the manufacturer of the specified product shall be the same company to ensure single source responsibility.
- B. All material shall be guaranteed to the extent that the surfacing:
1. Has been manufactured, applied and will perform in accordance with these and the manufacturer's specifications;
 2. Will hold fast and/or adhere to the primer, asphalt, concrete, edging, filler, patches or overlay materials;
 3. Is Ultra-Violet resistant, will not bubble, blister, fade, crack, or wear excessively during the warranty period.
- C. Prior to installation, or during installation or at completion of installation of the synthetic surfacing if the Owner has any question or doubt about the quality or formulation of the material, the Track & Field Synthetic Surfacing Contractor shall

have the product tested. If the product meets these specifications, then the Owner shall pay for the cost of the testing; if the product does not meet these specifications, then the Track & Field Synthetic Surfacing Contractor shall pay for the testing. Any material failing to meet specifications will be replaced with new material at the Track & Field Synthetic Surfacing Contractor's expense.

- D. The Track & Field Synthetic Surfacing Contractor shall, in the presence of the Owner, inspect the track and field synthetic surfacing each year until the end of the five (5) year warranty period, or at any time requested by the Owner. Any defects in workmanship or materials (at no fault of the Owner) shall be repaired at the expense of the Track & Field Synthetic Surfacing Contractor to the satisfaction of the Owner.
- E. Slopes & Tolerances
 - 1. The maximum lateral inclination permitted for the track across the full width of the track, outermost lane down to Lane 1, and across all runways, shall not exceed 1:100 (1.0%) maximum and no less than 0.6%.
 - 2. The maximum overall downward inclination permitted in the running direction for the track, the running direction for all runways and the throwing direction for all landing sectors, measured over the full length of any straight track distance, the last 20 meters of the javelin runway, the last 40 meters of other runways and the full length of landing sectors, shall not exceed 1:1000 (0.1%).
 - 3. High Jump - Maximum inclination of the last 15 meters of the approach and takeoff area shall not exceed 1:250 in the running direction toward the center of the crossbar.
 - 4. Throwing Circles / Pads - Concrete circles / pads shall be level.
 - 5. Depressions or variations can not exceed 3mm under a 1m straight edge or 6mm under a 4m straight edge.

1.06 SPECIAL PROJECT CONDITIONS

- A. The Track & Field Synthetic Surfacing Contractor will provide a project manager/superintendent on-site daily through the completion of the Track & Field Synthetic Surfacing Contractor's portion of the contract.
 - 1. The on-site project manager/superintendent shall remain on site through the completion of the project. Substitution of project manager/superintendent shall not be permitted.
- B. The Track & Field Synthetic Surfacing Contractor will provide a technician that will serve as a consultant to the Owner and Contractor during the Asphalt Paving, first reviewing the asphalt specification, accepting the specification as correct, and then, providing daily review and guidance of the construction of the Asphalt Paving which will directly effect the tolerances and longevity of the eventual synthetic surfacing installation.
- C. Prior to installing any concrete the Contractor must verify with the Track & Field Synthetic Surface manufacturer if any curing compounds or agents are allowed or acceptable.

1.07 SPECIFIC SCOPE OF WORK

- A. The Track & Field Synthetic Surfacing Contractor shall verify the entire track & field subbase and all events to determine that:
 - 1. The synthetic surface for the 400 meter track oval will accurately fit onto the Asphalt Paving base
 - 2. That slopes and elevations meet required tolerances
 - 3. No deviations in subbase materials exceed the allowable limits as specified
 - 4. The track & field areas will meet or exceed the rules of the sport

- B. The Track & Field Synthetic Surfacing Contractor shall provide all labor, materials and equipment to perform the following work:
 - 1. The Track & Field Synthetic Surfacing Contractor is responsible for installing all track & field synthetic surfacing materials and line markings (see section 02542) as designated in these specifications.
 - 2. Review Bidding documents and specifications, provide technical assistance, and approve Asphalt Paving base work as required in the specifications.
 - 3. Brush and wash down all areas to be surfaced, as often as necessary during the installation of the track and field synthetic surface.
 - 4. Repair all deviations as required in these specifications.
 - 5. Install removable track & field synthetic surfacing (full pour polyurethane) plugs in all pole vault boxes, long/triple jump take-off boards (1" x 1" corner notches in one short side) and throw circles (cut plugs in half); apply synthetic surfacing to the steeplechase water jump cover, sand pit covers and junction box covers.
 - 6. Install special material (i.e. foam, board, etc.) in slot drain opening to prevent polyurethane from entering the opening. The drainage slot opening shall be neatly trimmed out (vertical cuts), after polyurethane installation, to allow proper drainage to occur. No polyurethane is allowed on the inside of the drainage slot opening. This shall apply only if the precast slot drain is installed.
 - 7. Repair all damaged areas, clean-up all glue, and remove excess polyurethane, primers and similar products. All trim cuts shall be neat and clean; on all curves the trim-out shall follow a radius line for accuracy and neatness.

PART 2 PRODUCTS

2.01 TRACK & FIELD SYNTHETIC SURFACE

- A. The Track and Field Synthetic Surface shall be as per the manufacturer's specifications, plus the following requirements and where discrepancies exist, they shall be brought to the attention of the Owner or Owner's representative prior to Bidding or Installation.

- B. Color

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1. Red
- C. The following Products are approved for bidding:
 1. Tartan-APS,
 - a. Contact:
 - (1) Dick Railsback @ (402) 770-2523
 - b. Product:
 - (1) Full depth polyurethane: Tartan Endurance
 2. Or approved equal
- D. Two component full depth polyurethane with an EPDM embedded wearing layer.
 1. Materials
 - a. Primers
 - (1) Polyurethane based primers specifically formulated to be compatible with the base and track surfacing material.
 - b. Rubber Granules (Base Layer)
 - (1) Styrene Butadiene Rubber (SBR). The rubber granules shall be recycled SBR rubber, processed, chopped, and graded to match product specifications. Granules containing any traces of fiber or steel are unacceptable.
 - c. Polyurethane
 - (1) This consists of a two-component polyurethane which is self leveling and compounded from a proprietary, pigmented polyol and MDI based, "TDI Free", isocyanate. The liquid polyurethane shall contain no mercury, lead, or any other heavy metals added by design.
 - d. EPDM Granulate
 - (1) Peroxide cured EPDM granulate graded to match product specifications.
 - (2) The EPDM granulate shall be red in color and match the UV stabilized elastomeric polyurethane.
- E. Primers: All concrete areas to be surfaced shall receive manufacturer's approved primer.
- F. Patching Material: All materials must be approved materials and compatible with the synthetic surface.

PART 3 EXECUTION

3.01 INSPECTION AND ACCEPTANCE

- A. Examine all surfaces and contiguous elements to receive work of this section and correct, as part of the Work of this Contract, any defects affecting installation.
- B. Commencement of work will be construed as complete acceptability of surfaces and contiguous elements.

3.02 INSTALLATION REQUIREMENTS

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- A. The following installation requirements must be met by the Track & Field Synthetic Surfacing Contractor:
 - 1. Installation by synthetic surface manufacturer approved project manager/superintendent applicators and technicians. Local laborers may be hired for non-technical work, only.
 - 2. Priming - The primer shall be spray-applied in accordance with the manufacturer's specifications. Only those areas which can be installed the same day should be primed.

- B. Installation of two component full depth polyurethane with an EPDM embedded wearing layer (full pour system)
 - 1. Thickness to match sample submitted to and approved by IAAF certified testing laboratory. (See Item 1.4 – A.1. of this section)
 - 2. Base Course
 - a. The SBR granules and UV stabilized elastomeric polyurethane shall be metered and mixed together on site to regulate the ratio/quantity of SBR and insure an even distribution of the granules throughout the base course. Ratio of SBR to match product specifications.
 - 3. Resilient Wearing Course
 - a. The polyurethane material shall be mixed, metered and flow applied in a manner to achieve the specified thickness.
 - b. The EPDM granules shall then be broadcast into the polyurethane prior to curing. The rubber granules shall be applied to the wet polyurethane surface in a manner to sufficiently cover the surface and to match product tested to meet IAAF requirements.
 - c. This process shall result in a dense matrix of rubber granules with no light or bald spots in the surface.

3.03 TIMING, LIMITATIONS, AND CONDITIONS AFFECTING INSTALLATION

- A. Weather and Climate: If in the opinion of the synthetic track surfacing manufacturer or the Owner, weather and climatic conditions are having or will have an adverse effect on installation; work shall be delayed until the adverse condition has passed.

- B. Adjacent and Concurrent Construction: Installation shall not take place until the completion of the adjacent or concurrent construction operations which generate dust, airborne abrasives, or any other by-product that, in the opinion of the Owner or synthetic track surfacing manufacturer, would be harmful to the track material. Under specific direction of the Owner, the Track & Field Synthetic Surfacing Contractor may be allowed to cover the track material with an approved covering if such harmful construction operations must occur after the track material has been installed.

END OF SECTION 02540