

Higley

Document 00 41 13 - Bid Form (General Contracting Project)
State of Ohio Standard Requirements for Public Facility Construction

Sealed bids will be received by the Cuyahoga Community College District at 700 Carnegie Avenue, Cleveland, OH 44115 for:

Project #C20212097
East Campus Track Rehabilitation

at

4250 Richmond Road
Highland Hills, Ohio 44122

for the

Cuyahoga Community College District

The time for Substantial Completion of all Work is 150 consecutive days from the Notice to Proceed.

Having read and examined the proposed Contract Documents prepared by the Architect/Engineer for the above-referenced Project and the following Addenda:

Addendum Number

Date Received

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

The undersigned Bidder proposes to perform all Work for the applicable Contract in accordance with the proposed Contract Documents, for the following sum(s):

Bid Package 101 – GENERAL CONTRACT

ALLOWANCES (Include Allowance amounts in the Base Bid below. The Contractor's Fee and costs for unloading and handling on the Site, labor, installation costs, and other expenses contemplated for the Allowances are included in the Base Bid and not in the Allowance.)

UNIT PRICES (Include the subtotal of Unit Price extensions in the Base Bid below. Unit prices shall be used solely for the purpose of determining the adjustment to the Contract Sum for differences between the estimated quantities on the Bid Form and the actual quantities provided. The Contractor's Fee on account of Unit Price Work is included in the Base Bid and not in the Unit Price.)

Item	Description	Estimated Quantity	Unit Price	Unit of Measure	Extension
General Contract	Lump Sum Base Bid	1	\$ 663,402	/ LS	\$ 663,402 ⁰⁰
SUBTOTAL OF UNIT PRICE EXTENSIONS:					\$ 142,586 ⁸³
BASE BID (Including Allowances and Subtotal of Unit Price Extensions above):					
ALL LABOR AND MATERIALS, for the sum of					\$ 805,988 ⁸³

Sum in words: EIGHT HUNDRED FIVE THOUSAND NINE HUNDRED EIGHTY
EIGHT DOLLARS and 83 /100 dollars.

Alternate 1: Interior Track Drainage Replacement

Pipe Removed (1,150 LF) (Circle appropriate choice below and insert amount)

If Alternate is accepted, ADD TO DEDUCT FROM Base Bid: \$ 12,305⁸¹

Sum in words (unit price/^{LF}SY): TEN DOLLARS and 70 /100 dollars.

Sum in words (TOTAL): TWELVE THOUSAND THREE HUNDRED
FIVE DOLLARS and 81 /100 dollars.

Storm Sewers 8" to 12" (1,150 LF) (Circle appropriate choice below and insert amount)

If Alternate is accepted, ADD TO DEDUCT FROM Base Bid: \$ 88,401⁸⁰

Sum in words (unit price/^{LF}SY): SEVENTY SEVEN DOLLARS and 05 /100 dollars.

Sum in words (TOTAL): EIGHTY EIGHT THOUSAND SIX HUNDRED
ONE DOLLARS and 80 /100 dollars.

24" Nyloplast Inlet (13 Each) (Circle appropriate choice below and insert amount)

If Alternate is accepted, ADD TO DEDUCT FROM Base Bid: \$ 30,604⁰⁰

Sum in words (unit price/^{EA}SY): TWO THOUSAND THREE HUNDRED
FIFTY FOUR DOLLARS and 15 /100 dollars.

Sum in words (TOTAL): THIRTY THOUSAND SIX HUNDRED
FOUR DOLLARS and 00 /100 dollars.

Interior field underdrains 4" (450 LF) (Circle appropriate choice below and insert amount)

If Alternate is accepted, ADD TO DEDUCT FROM Base Bid: \$ 11,075²²

Sum in words (unit price/^{LF}SY): TWENTY FOUR DOLLARS and 61 /100 dollars.

Sum in words (TOTAL): ELEVEN THOUSAND SEVENTY FIVE
DOLLARS and 22 /100 dollars.

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BIDDER AFFIRMATION AND DISCLOSURE

Bidder acknowledges that by signing the Bid Form on the Bidder Signature and Information page, that it affirms, understands, and will abide by the requirements of Executive Order 2011-12K. If awarded a Contract, the Bidder will become the Contractor and affirms that both the Contractor and its Subcontractors shall perform no services requested under this Contract outside of the United States.

The Bidder shall provide the locations where services under this Contract will be performed in the spaces provided below or by attachment. Failure to provide this information as part of its Bid may cause the Bidder to be deemed non-responsive and no further consideration will be given to its Bid. If the Bidder will not be using Subcontractors, indicate "Not Applicable" in the appropriate spaces.

- 1. Principal business location of Contractor:**

3636 EUCLID AVE.

Address

CLEVELAND, OHIO, 44115

City, State, Zip

- 2. Location where services will be performed by Contractor:**

3636 EUCLID AVE.

Address

CLEVELAND, OHIO, 44195

City, State, Zip

Locations where services will be performed by Subcontractors, if known at time of Bid Opening:

Address

City, State, Zip

Address

City, State, Zip

Address

City, State, Zip

- 3. Location where state data will be stored, accessed, tested, maintained, or backed-up, by Contractor:**

3636 EUCLID AVE.

Address

CLEVELAND, OHIO 44115

City, State, Zip

Locations where state data will be stored, accessed, tested, maintained, or backed-up by Subcontractors, if known at time of Bid Opening:

Address

City, State, Zip

Address

City, State, Zip

Address

City, State, Zip

**COMMITMENT TO PARTICIPATE
IN THE
EDGE BUSINESS ASSISTANCE PROGRAM**

Bidder: Mark only one option.

Use "✓" or "X" to mark option included in Bid

If marking Option B, also show percentage of proposed participation.



Option A

Bidder commits to *meet or exceed* the advertised EDGE Participation Goal of the Contract award amount, calculated as a portion of the Base Bid plus all accepted Alternates, by using certified EDGE Business Enterprise(s).

Bidder agrees that if selected for consideration of the Contract, it shall provide (if not provided with the Bidder's Bid) to the Contracting Authority, at the location required and within 3 business days after receiving notice from the Contracting Authority, its fully-completed *Bidder's Qualification Form*, including an *EDGE Affidavit* form for each certified EDGE Business Enterprise proposed for use by the Bidder if awarded the Contract for this Project.

Option B (also indicate percentage -- see text)

Bidder *does not meet* the advertised EDGE Participation Goal percentage, but, if awarded the Contract for this Project, *commits to provide* _____ percent of the Contract award amount, calculated as a portion of the Base Bid plus all accepted Alternates, by using certified EDGE Business Enterprise(s).

Bidder acknowledges it understands the requirement for it to provide and agrees to provide to the Contracting Authority, if selected for consideration of the Contract, within 3 business days after notice from the Contracting Authority, a detailed *Demonstration of Good Faith* form describing its efforts undertaken prior to submitting its Bid to meet the advertised EDGE Participation Goal percentage for the Contract for this Project.

Bidder commits to provide to the Contracting Authority at the location required, and within 3 days after receiving notice from the Contracting Authority, its fully-completed *Bidder's Qualification Form*, including an *EDGE Affidavit* form for each certified EDGE Business Enterprise proposed for use by the Bidder if awarded the Contract for this Project.

Option C

Bidder declares that the Bidder is a certified EDGE Business Enterprise and that if awarded this Contract, the EDGE Participation percentage will be 100 percent of the Contract award amount.

BIDDER'S CERTIFICATIONS

The Bidder hereby acknowledges that the following representations in this Bid are material and not mere recitals:

1. The Bidder has read and understands the proposed Contract Documents and agrees to comply with all requirements of the proposed Contract Documents, regardless of whether the Bidder has actual knowledge of the requirements and regardless of any statement or omission made by the Bidder, which might indicate a contrary intention.
2. The Bidder represents that the Bid is based upon the Basis of Design and Acceptable Components specified by the proposed Contract Documents.
3. The Bidder has visited the Site, become familiar with local conditions, and has correlated personal observations about the requirements of the proposed Contract Documents. The Bidder has no outstanding questions regarding the interpretation or clarification of the proposed Contract Documents.
4. The Bidder understands that the execution of the Project will require sequential, coordinated, and interrelated operations, which may involve interference, disruption, hindrance, or delay in the progress of the Bidder's Work. The Bidder agrees that the Contract Sum, as amended from time to time, shall cover all amounts due from the State resulting from interference, disruption, hindrance, or delay that is not caused by the State or its agents and employees. The Bidder agrees that any such interference, disruption, hindrance, or delay is within the contemplation of the Bidder and the State and that the Contractor's sole remedy from the State for any such interference, disruption, hindrance, or delay shall be an extension of time in accordance with the proposed Contract Documents.
5. During the performance of the Contract, the Bidder agrees to comply with Ohio Administrative Code ("OAC") Chapters 123:2-3 through 123:2-9 and agrees to incorporate the monthly reporting provisions of OAC Section 123:2-9-01 into all subcontracts on the Project, regardless of tier. The Bidder understands the State's Equal Opportunity Coordinator or the Contracting Authority may conduct pre-award and post-award compliance reviews to determine if the Bidder maintains nondiscriminatory employment practices, maintains an affirmative action program, and is exerting good faith efforts to accomplish the goals of the affirmative action program. For a full statement of the rules regarding Equal Employment Opportunity in the Construction Industry, see OAC Chapters 123:2-1 through 123:2-9.
6. The Bidder and each Person signing on behalf of the Bidder certifies, and in the case of a Bid by a joint venture each member thereof certifies as to such member's entity, under penalty of perjury, that to the best of the undersigned's knowledge and belief: (a) the Base Bid, any Unit Prices, and any Alternate bid in the Bid have been arrived at independently without collusion, consultation, communication or agreement, for the purpose of restricting competition as to any matter relating to such Base Bid, Unit Prices or Alternate bid with any other Bidder; (b) unless otherwise required by law, the Base Bid, any Unit Prices and any Alternate bid in the Bid have not been knowingly disclosed by the Bidder and shall not knowingly be disclosed by the Bidder prior to the bid opening, directly or indirectly, to any other Bidder who would have any interest in the Base Bid, Unit Prices or Alternate bid; (c) no attempt has been made or shall be made by the Bidder to induce any other Person to submit or not to submit a Bid for the purpose of restricting competition.
7. The Bidder understands that the Contract is subject to all the provisions, duties, obligations, remedies and penalties of Ohio Revised Code Chapter 4115 and that the Bidder shall pay any wage increase in the locality during the term of the Contract.
8. The Bidder shall execute the Agreement with the Contracting Authority, if a Contract is awarded on the basis of this Bid, and if the Bidder does not execute the Agreement for any reason, other than as authorized by law, the Bidder and the Bidder's Surety are liable to the State as provided in **Article 5** of the Instructions to Bidders.
9. The Bidder certifies that the upon the award of a Contract, as the Contractor it shall make a good faith effort to ensure that all of the Contractor's employees, while working on the Site, shall not purchase, transfer, use, or possess illegal drugs or alcohol or abuse prescription drugs in any way.
10. The Bidder acknowledges that it read all of the **Instructions to Bidders**, and in particular, **Section 2.10 - Submittals With Bid Form**, and by submitting its Bid certifies that it has read the Instructions to Bidders and it understands and agrees to the terms and conditions stated in them.

11. The Bidder agrees to furnish any information requested by the Contracting Authority or Architect/Engineer to evaluate the responsibility of the Bidder.
12. The Bidder agrees to furnish the submittals required by **Section 6.1** of the **Instructions to Bidders** for execution of the Agreement within 10 days of the date of the Notice of Intent to Award.
13. When the Bidder is a corporation, partnership or sole proprietorship, an officer, partner or principal of the Bidder, as applicable, shall print or type the legal name of the Bidder on the line provided, and **sign the Bid Form**.
14. When the Bidder is a joint venture, an officer, partner or principal, as applicable, of each member of the joint venture shall print or type the legal name of the applicable member on the line provided, and **sign the Bid Form**.
15. Bidder acknowledges that by signing the Bid Form on the following Bidder Signature and Information page that it is signing the actual Bid and when submitted as a part of its bid package, shall serve as the Bidder's authorization for the further consideration and activity in the bidding and contract process.
16. All signatures must be original.

-- remainder of page left blank intentionally --

BIDDER SIGNATURE AND INFORMATION**Bidder's Authorized Signature:** **Please print or type the following:**

Name of Bidder's Authorized Signatory

GARETH VAUGHAN

Title:

PRESIDENT + CEO

Company Name:

THE ALBERT M. HIGLEY CO.

Mailing Address:

3636 EUCLID AVE.

CLEVELAND, OHIO, 44115

Telephone Number:

216-861-2050

Facsimile Number:

216-861-0038

E-Mail Address:

GKRISIS@AMHIGLEY.COM

Where Incorporated:

OHIO

Federal Tax Identification Number:

270657807

Date enrolled in an OBWC-approved DFSP (month/date/year):

07 / 01 / 2022

Contact person for Contract processing:

GUS KRISIS

President's or Chief Executive Officer's Name / Title:

GARETH VAUGHAN
PRESIDENT + CEO**JOINT VENTURE ADDITIONAL BIDDER SIGNATURE & INFORMATION****Joint Venture Bidder's Authorized Signature:** _____**Please print or type the following:**

Name of Joint Venture Bidder's Authorized Signatory

Title:

Company Name:

Mailing Address:

Telephone Number:

Facsimile Number:

E-Mail Address:

Where Incorporated:

Federal Tax Identification Number:

Date enrolled in an OBWC-approved DFSP (month/date/year):

Contact person for Contract processing:

President's or Chief Executive Officer's Name / Title:

END OF DOCUMENT

Document 00 43 13 - Bid Security Form

State of Ohio Standard Requirements for Public Facility Construction

(Form of combined Bid Guaranty and Bond prescribed by Ohio Revised Code Section 153.571)

KNOW ALL PERSONS BY THESE PRESENTS, that we, the undersigned _____
The Albert M. Higley Company, LLC _____, as Principal,
and _____ The Liberty Mutual Insurance Company _____ as Sureties,
are hereby held and firmly bound unto _____ Cuyahoga Community College 4250 Richmond Road Highland Hills, OH 44122
_____ as Oblige(e)s, in the penal sum of the dollar amount of the Bid submitted by the Principal
to the Oblige(e) on November 2, 2022 _____ (date) to undertake the Project known as:

Project Number: C20212097 _____
Project Name: East Campus Track Rehabilitation _____
Contract Description: General Contracting _____
(e.g., General Trades, Plumbing, HVAC, Electrical)

The penal sum, referred to herein, shall be the dollar amount of the Principal's Bid to the Oblige(e), incorporating any additive alternate Bids made by the Principal on the date referred to above to the Oblige(e), which are accepted by the Oblige(e). In no case shall the penal sum exceed the amount of dollars (\$ _____). (If the preceding line is left blank, the penal sum will be the full amount of the Principal's Bid, including add alternates. Alternatively, if completed, the amount stated shall not be less than the full amount of the Bid, including Alternates, in dollars and cents. A percentage is not acceptable.) For the payment of the penal sum well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns.

THE CONDITION OF THE ABOVE OBLIGATION IS SUCH, that whereas the above-named Principal has submitted a Bid for the above referenced Project;

NOW, THEREFORE, if the Oblige(e) accepts the Bid of the Principal, and the Principal fails to enter into a proper contract in accordance with the Bid, Plans, Specifications, details, and bills of material; and in the event the Principal pays to the Oblige(e) the difference, not to exceed ten percent of the penal sum hereof between the amount specified in the Bid and such larger amount for which the Oblige(e) may in good faith contract with the Bidder determined by the Oblige(e) to be the next lowest responsive and responsible to perform the Work covered by the Bid; or in the event the Oblige(e) does not award the Contract to such next lowest responsive and responsible Bidder and resubmits the Project for bidding, the Principal pays to the Oblige(e) the difference not to exceed ten percent of the penal sum hereof between the amount specified in the Bid, or the costs, in connection with the resubmission, of printing new Contract Documents, required advertising and printing and mailing notices to prospective Bidders, whichever is less, then this obligation shall be null and void, otherwise to remain in full force and effect. If the Oblige(e) accepts the Bid of the Principal, and the Principal, within 10 days after the awarding of the Contract, enters into a proper contract and executes the Agreement Form in accordance with the Contract Documents, including without limitation the Bid, Plans, Specifications, details, and bills of material, which said Contract is made a part of this Bond the same as though set forth herein; and

NOW ALSO, IF THE SAID Principal shall well and faithfully perform each and every condition of such Contract; and indemnify the Oblige(e) against all damage suffered by failure to perform such Contract according to the provisions thereof and in accordance with the Contract Documents, including without limitation Plans, Specifications, details, and bills of material therefore; and shall pay all lawful claims of Subcontractors, Material Suppliers and laborers for labor performed and materials furnished in the carrying forward, performing or completing of said Contract; we, agreeing and assenting that this undertaking shall be for the benefit of any Subcontractor, Material Suppliers or laborer having a just claim, as well as for the Oblige(e) herein; then this obligation shall be void; otherwise the same shall remain in full force and effect; it being

expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall in no event exceed the penal amount of this obligation as herein stated.

THE SAID Surety hereby stipulates and agrees that no modifications, omissions or additions, in or to the terms of said Contract, the Work thereunder or the Contract Documents, including without limitation the Plans and Specifications, therefore, shall in any way affect the obligations of said Surety on its bond, and it does hereby waive notice of any such modifications, omissions or additions in or to the terms of the Contract, the Work, or the Contract Documents, including without limitation the Plans and Specifications.

SIGNED AND SEALED this 26th day of October, 2022.

PRINCIPAL: The Albert M. Higley Company, LLC

x *Daniel Sehlhorst*

By: Daniel Sehlhorst

Title: Seior Vice President

SURETY: The Liberty Mutual Insurance Co.



William M. Killea

Attorney-in-Fact

SURETY INFORMATION:

8044 Montgomery Road

Street

Cincinnati Ohio 45236

City State Zip

1-614-987-1274

Telephone Number

SURETY AGENT'S INFORMATION:

Luce, Smith & Scott, Inc.

Agency Name

6860 W. Snowville Road #110

Street

Brecksville Ohio 44141

City State Zip

440-746-1700

Telephone Number

END OF DOCUMENT



This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

Certificate No: 8196833-976667

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Belinda Fratilla; Patricia A. Friery; Ann M. Kessler; William M. Killea; Gregory Skaljac; Daniel Skaljac

all of the city of Cleveland state of OH each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 13th day of September, 2018.



Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

By: David M. Carey
David M. Carey, Assistant Secretary

State of PENNSYLVANIA ss
County of MONTGOMERY

On this 13th day of September, 2018 before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Teresa Pastella, Notary Public
Upper Merion Twp., Montgomery County
My Commission Expires March 28, 2021
Member, Pennsylvania Association of Notaries

By: Teresa Pastella
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV – OFFICERS: Section 12. Power of Attorney.

Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII – Execution of Contracts: Section 5. Surety Bonds and Undertakings.

Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 26th day of October, 2022.



By: Renee C. Llewellyn
Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

SYNTHETIC SURFACING AND LINE MARKINGS FOR STOBITAN® BASE



STOCKMEIER
URETHANES

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions as previously specified, apply to this section.

1.2 SUMMARY

- A. The contractor shall furnish all materials, labor, tools, and equipment necessary for the installation of the synthetic track surface and line markings on all areas detailed in the contract drawings.
- B. Related Sections include the following:
 - 1. "Storm Drainage" for track and field drainage system
 - 2. "Hot-Mix Asphalt Paving" base for track surface
 - 3. "Aggregate" base for asphalt
 - 4. "Portland Cement" work for curbs and related areas

1.3 CODES AND STANDARDS

- A. Codes and standards follow the current guidelines set forth by the National Federation of State High School Associations (NFHS), the National Collegiate Athletic Association (NCAA) and the International Association of Athletics Federations (IAAF).

1.4 SUBMITTALS

- A. Submit three (3) sets of manufacturer's product data sheets including installation guidelines and maintenance instructions.
- B. Submit three (3) representative track samples in the color of surfacing to be installed.
- C. Submit test reports that verify the manufacturer's specifications (data) for the product to be installed.
- D. Submit documentation that verifies that the synthetic surfacing material does not contain any toxic or hazardous substance, which exceeds limits set forth by the EPA.
- E. Submit Material Safety Data Sheets (MSDS) for all individual components of the product being installed.
- F. Provide a letter stating that the surfacing contractor has reviewed the asphalt specification and accepts the specification as correct. Furthermore, the surfacing contractor shall provide a letter after checking the asphalt accepting it for synthetic surface installation. Should areas be found that do not meet specifications, they shall be repaired or replaced by the asphalt contractor prior to the synthetic surfacing contractor issuing its letter of acceptance.
- G. The synthetic surfacing material manufacturer shall submit a letter stating that the surfacing contractor is qualified to install its synthetic surface system.

Stockmeier Urethanes USA, Inc.
20 Columbia Boulevard
Clarksburg, WV 26301-9606, USA
T +1-304-624-7002
F +1-304-624-7020
urethanes.usa@stockmeier.com
www.stockmeier-urethanes.com

- H. Submit three (3) copies of a detailed drawing showing location and color of all lane lines, start, finishes and all related markings for the owner to review at least four weeks prior to their application.
- I. Submit evidence that the synthetic surfacing contractor holds the necessary contractor's license to install synthetic surfacing
- J. Submit evidence that the synthetic surfacing contractor is a member of the American Sports Builders Association (ASBA).
- K. Submit evidence that the material manufacturer is ISO 9001 certified.
- L. System manufacturer must have a minimum of 6 IAAF tested and certified systems.

1.5 WARRANTY

- A. Provide a Five (5) Year Warranty against faulty workmanship and materials for the synthetic surface. The warranty period shall commence at final completion of the surfacing.
- B. A one (1) Year Warranty shall be provided for the line markings.

1.6 QUALITY ASSURANCE

- A. Provide a certificate of accuracy from a registered engineer, land surveyor or certified track builder by ASBA that the track measures 400 meters in all lanes from start to finish.
- B. Provide, as a part of the Warranty, documents stating that the materials applied conform to the manufacturer's specifications and that the material will not separate from the asphalt or concrete base, blister, bubble, fade, crack or wear excessively during the life of the warranty.
- C. The materials will not foam, thus causing air bubbles and reduce the life expectancy of the surface.
- D. The synthetic surfacing contractor and owner will annually walk and inspect the synthetic surface during the life of the warranty. Warranty issues will be repaired and for non-warranty items a method for correction will be presented.
- E. The synthetic surfacing contractor shall maintain a clean and orderly job site. All excess materials shall be removed from the construction area and properly disposed of. Scrap shall be removed in the same manner.

PART 2 - PRODUCTS

2.1 SYNTHETIC SURFACING

- A. The synthetic surfacing shall be a 11 - 12 mm thick, permeable, system, with a paved in place rubber granule and polyurethane binder base layer.

2.2 PREQUALIFIED PRODUCT

- A. STOCKMEIER URETHANES USA, INC.: STOBITAN® BASE
Contact: David Painter, (304) 841-4655
e-mail: d.painter@stockmeier.com
- B. Prequalified Equal

2.3 PROPERTIES *

<u>PHYSICAL PROPERTY</u>	<u>REQUIREMENT</u>
Thickness	11 – 12 mm

2.4 SYSTEM COMPONENTS

- A. Polyurethane Primer (Stobielast® 100.00 or 135.00+Solvent) – if 135.00+solvent is used, it shall be mixed 50/50 specifically for priming concrete/asphalt prior to installation of polyurethane coating. Primer is also used to prime cured polyurethane prior to the application of a new layer, when necessary.
- B. Polyurethane Binder (Stobielast® 135.00) – shall be a single component, **100% polyurethane**, moisture curing, middle viscosity polyurethane binding agent based on MDI/TDI. The level of the tolylene diisocyanate monomer is very low, less than ½ of 1%. Importantly the binder contains no solvents and no extenders (plasticiser).
- C. SBR Rubber – SBR rubber granules shall be recycled black rubber that is processed and graded to 1-4 mm in size containing no fiber or metal and contains less than 4% dust.

PART 3 EXECUTION

3.1 ASPHALT AND CONCRETE PREPARATION

- A. It is the responsibility of the asphalt-paving contractor to provide documentation that the paving meets those requirements set forth for asphalt paving. Additionally, the asphalt is to cure for a minimum of 28 days prior to synthetic surfacing being applied. Asphalt compaction tests are to be provided showing a compaction of 95% or greater. 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 paving contractor. Flooding the asphalt surface to locate irregularities is highly recommended.
- B. All concrete work is to cure for a minimum of 45 days. No curing agents are to be used. Any concrete flat work such as run ups etc will be checked as in 3.1.A.

All areas to receive synthetic surfacing are to be clean and free of any loose particles or foreign substances such as dirt, oil, grease, etc.

3.2 INSTALLATION OF STOBITAN® BASE SURFACING

- A. Primer - All asphalt and concrete is primed using a mixture of Stobielast® 135.00 polyurethane binder and solvent such as butyl acetate (1:1 w/w) or Stobielast® S 100.00. Application rate is approximately 0.28 lbs/sy. Only the area to be covered within the working day should be primed to ensure a good bond to the base. Concrete base may require additional coating based on absorption rate of applied primer.
- B. Base Layer – The base layer is a mixture of 1-4 mm SBR black rubber granules mixed in a mechanical mixer with Stobielast® 135.00 polyurethane binder. The materials are mixed until homogeneous. Mixing ratio is 100 parts rubber to 20 parts polyurethane. The prepared rubber and polyurethane is then paved in place using a heated mechanical screed paver, specially designed for this work, to an approximate depth of 11–12 mm using approximately 17.33 lbs/sy of mixed material.
- C. All methods for mixing of products are to be approved by Stockmeier Urethanes and can be found on their Technical Data Sheet (TDS)
- D. All labor shall be full time employees of the surfacing contractor.

3.3 LINE MARKINGS

- A. All line marking paint is to be approved by the synthetic surfacing manufacturer.
- B. All markings will be in accordance to the desires of the owner. See 1.3.A.

3.4 SPECIFIC SLOPES

- A. Concrete curbs - All top elevations of any continuous concrete curbs shall be a constant elevation.
- B. Track oval – running direction 0.1 %; lateral slope 2.0 % max. NFHS, 1% NCAA and IAAF.
- C. D areas (high jump) – towards cross bar 1 % downward
- D. Run ups same as oval unless located in the "D".

END OF SECTION

STOBITAN®

Base

• Porous Textured System



Subsurface	Porous asphalt		
	Product	kg/m²	lb/yd²
Primer	Stobiela[®] S 100.00 (alt.: Base binder & light aromatic solvent 50/50 by weight)	0.15 kg	0.28 lb
Base layer 11-12 mm	Stobiela[®] S 135.00 SBR-granules 1-4 mm (Specified SBR quantities are approximate and are dependent upon the rubber size distribution and source of manufacturing. The mass of SBR specified above refers to the net quantity of rubber required for base layer and does not include not include reclamation quantities.)	1.60 kg 7.80 kg	2.95 lb 14.38 lb
Total thickness	Approx. 11-12 mm		
Application	Athletic running tracks / Multipurpose sports fields (Note: Not spike proof)		
Other	All described polyurethane components are heavy-metal free.		
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